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JOHN REYNDERS & CO.

303 FOURTH AVE., NEW YORK.

Veterinary Instruments,

ANATOMICAL

MODELS, BOOKS, ETC.

Illustrated Alphabetical Register
OF
VETERINARY INSTRUMENTS,

ANATOMICAL MODELS, BOOKS, ETC.

SECOND EDITION,

REVISED AND ENLARGED.



MANUFACTURED, IMPORTED AND FOR SALE BY

JOHN REYNOLDERS & CO.,

CHARLES REYNOLDERS,
WILLIAM HARZ,

No. 303 Fourth Avenue, New York.



COMPILED AND PUBLISHED BY

JOHN REYNOLDERS & CO.,

1883.

51913
1246

Entered, according to Act of Congress, in the year 1883,
By JOHN REYNDERS & Co.,
In the Office of the Librarian of Congress, at Washington, D. C.

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Press of H. CHEROUX.
17-27 Vandewater St.,
New York.

9.9.8.20-15/12

INTRODUCTION.

In presenting to the American Veterinary Profession, Stock Farmers and others the second edition of our Illustrated Alphabetical Register of Veterinary Instruments, Anatomical Models, Books, etc., we intend to furnish the means of becoming acquainted with the various forms of these goods as manufactured and imported by us. This Register will be found a valuable guide of reference for the selection of articles of above description. In compiling, neither labor, time nor expense have been spared to make it the completest work of its kind published on this continent.

Our stock is larger, more varied and completer than heretofore. It is our determination to have on hand a full supply of all goods mentioned in the following pages; all new and useful improvements will be added thereto, thus enabling the profession to find at our establishment everything requisite for each department of their art. We shall be pleased to have our attention called to new inventions and improvements in Instruments and Apparatus; our personal superintendence will be given to the execution of orders for such as also to all orders large or small for goods as enumerated in the following pages and that we may be favored with. Our prices are as moderate as consistent with the irreproachable quality of the goods (the only quality manufactured by us); and taking this into consideration, will compare favorably with any first class manufacturers in this country.

All of the following articles are of strictly the best quality, made by experienced artisans at our factory and are warranted to give satisfaction.

By constant and careful attention to the production of Instruments of the very best quality and workmanship, we hope to merit a continuance of the liberal patronage and support hitherto accorded us.

Most Respectfully,

NO. 303 FOURTH AVE., N. Y.,
JANUARY, 1884.

John Reynders & Co.,
*Instrument Makers to the Hospital Department of the
American Veterinary College.*

The First Edition of our Illustrated Alphabetical Register of Veterinary Instruments, Anatomical Models, Books, etc., is superseded by this, the Second Edition.

SUGGESTIONS TO PURCHASERS;

Intended to facilitate the filling of orders and therefore urgently recommended to your attention.

1. In ordering goods by this Register be careful to use the name and number of the article desired as given by us; also state that the selection has been made from the **Second Edition** of our **Illustrated Alphabetical Register of Veterinary Instruments, etc., etc.**

2. When ordering an article of which different sizes are made, state which size is desired, or measurements.

3. Parties finding it more convenient to obtain our instruments through dealers, are requested to order "Reynders' Manufacture" as otherwise inferior goods are frequently substituted.

4. **Please do not mutilate this book.** The enclosure of clippings therefrom will not aid in making the order plainer to us; when our suggestion No. 1 is followed.

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6. If an article not enumerated in this Catalogue is desired, be particular to give a full description or sketch of the same, or refer us to the Medical Book or Journal, (stating its name, date or number) in which a description can be found. Reference to former correspondence should be avoided as much as possible.

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9. State how you wish your goods forwarded—by mail, express or otherwise.

10. Our terms are Cash. Parties ordering goods from us for the first time should remit with the order, or give us satisfactory references as to their reliability.

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15. Every article sent by us not answering our description or not according to order, will be taken back without loss to the purchaser.

16. We reserve the privilege of changing the prices in this Register, as the fluctuations in the cost of materials and wages may require.

SPECIAL NOTICE.

In sending instruments for alteration or repairs, please observe the following provisions governing the mailing of such articles and called Third Class matter.

Postage must be fully prepaid, by stamps affixed thereto, at the rate of one cent for each ounce or fraction thereof.

Packages weighing more than four pounds are not mailable.

All packages must be so wrapped that their contents may be readily examined by Postmasters without destroying the wrapper.

Please do not seal, paste or sew up any package sent to us by mail.

Do not enclose writing in any mail package, but inform us by separate letter or postal card what you wish altered or repaired on the articles mailed to us.

Articles having sharp edges or points, (knives, needles, etc.) as also such composed wholly or in part of glass (Hypodermic Syringes, etc.) must be packed in light wooden or tin boxes with sealed wrappers, and postage prepaid thereon at letter rates. Three cents per half ounce or fraction thereof.

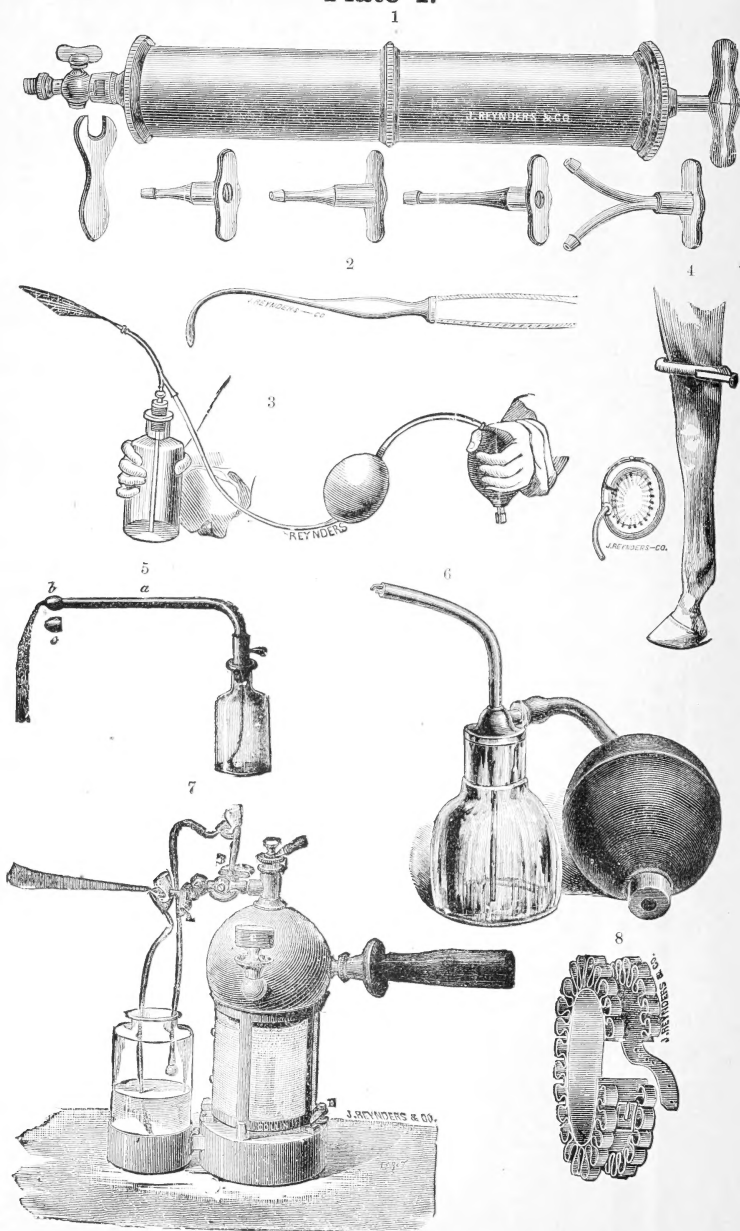
All packages, whether of First or Third Class matter, can be registered for an additional cost of ten cents per package. Greater security in transmission is secured thereby.

All packages or parcels sent to us by mail or express *must have the name and address of the sender plainly written on the outside thereof, with the word "From" above the same. This will enable us to return the articles to the proper place and person.*

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Plate I.



Alphabetical Register of Instruments etc.

A	bcess Lancet, in hard rubber handle.....	\$ 1 00
"	" with slide catch. Plate 2. Fig. 22.....	2 00
Alcohol Lamp, glass.....		0 50
Anatomical Syringe, best, consisting of the syringe, 1 double injection pipe, 3 assorted single pipes, 1 stop-cock and wrench; in mahogany case, lined. Fig. 1.....		40 00
Aneurism Needle, combined with Director. Plate 12. Fig. 137.....		0 75
"	" in ebony handle. Fig. 2.....	1 00
"	" in ivory ".....	1 25
"	" closing into plain hard rubber handle.....	1 50
"	" closing into hard rubber handle, with slide catch....	2 50
"	" and Tenaculum, closing into one plain hard rubber handle.....	1 75
Aneurism Needle and Tanaculum, closing into hard rubber handle with slide catches.....		3 25
Ankle Guards, Universal. Fig. 8.....	each	1 00*
*These Ankle Guards, or Protectors, are very light and soft, and perform the work much better than the hard and rigid ones in common use, and being continuous around the leg, they are always in position.		
Antiseptic Atomizer, Championnière's, with two spray tubes. Fig. 7.....		60 00
"	" small size, with one spray tube.....	35 00
"	" Lister's; operated with set of double bulbs (<i>same as on Atomizer, Fig. 3</i>).....	5 50
Antiseptic Atomizer, with three flexible tubes, operated with set of double bulbs. Plate 2. Fig. 11.....		8 25
Antiseptic Dressing Materials. See "Dressing Materials."		
Apparatus for throwing Anaesthetic Spray. Richardson's, with one straight jet. Fig. 3.....		5 50
Apparatus for throwing Anaesthetic Spray, Richardson's, with one each straight and curved jets.....		6 25
Apparatus for throwing Anaesthetic Spray, J. Reynders & Co.'s, tube made of hard rubber, with one each straight and curved jets. Fig. 5.....		4 00
Apparatus, Blackwell's, for legs of horses, producing numerous and constant streams or jets of cold water (or hot for fomentation), supplies itself upon the syphon principle from a pail, manger, or the tap of a Croton pipe; it is fastened to the limb by means of strap and buckle. Fig. 4.....		8 00
Apparatus for Singeing Horses with gas, plain, without tubing. Plate 2. Fig 10.....		4 00*
Apparatus for Singeing Horses with gas, with ball and socket-joint, without tubing. Plate 2. Fig. 9.....		4 50*
Arm Protector, of rubber.....		3 00

Plate II.



Artery Forceps, plain. Fig. 19.....	\$ 1 00
“ “ with rat-teeth. Fig. 20.....	1 50
“ “ plain, with spring catch. Fig. 15.....	1 75
“ “ with rat-teeth and spring catch.....	2 00
“ “ Fricke's, with slide catch. Fig. 18.....	2 50
“ “ “ for torsion, with extra long slide catch. Fig. 13	3 00
“ “ fenestrated with spring catch. Fig. 17.....	2 50
“ “ bull dog, with spring catch.....	2 75
“ “ fenestrated and combined with needle holder. Fig. 14.	4 00
“ “ Cleborne's. Fig. 16.....	3 50
Artery Clamp Forceps, straight or curved. Fig. 12.....	0 70*
“ “ Forceps, with scissor handles and catch. Plate 14.	
Fig. 171.....	2 50
Artery Needle, closing into hard rubber handle, with slide catch. Can be used also as a dog seaton needle. Fig. 21.....	3 00
Articulated Fole Hooks, blunt and sharp. Plate 14. Fig. 168 ....each	4 00
Artificial Eyes, glass, of $1\frac{7}{16}$, $1\frac{3}{4}$ and 2 inches diameter. Plate 3. Fig. 27.	
each	5 00
“ “ hard rubber, of $1\frac{7}{16}$, $1\frac{3}{4}$ and 2 inches diameter ....each	4 00
Artificial Hand or Parturition Forceps, E. A. A. Grange's.	
Ashton's Full Curved Needle in Handle. Plate 19. Fig. 221.....	1 50
Aspirator, Fitch's "Handy." Plate 3. Fig. 25.....	5 00

A represents the dome aspirator needle with the cutting point projected ready for puncture. *G* a magnified diagram of the same after insertion, with the dome advanced so as to protect the interior of the cavity during aspiration; *E* bulb in upright position to insure the best action of the valves; *CC* valves; *D* entrance tube; *E* exit tube; *FF* bits of glass tubing, through which to observe the passage of the fluid.

Aspirator Trocar and Canula, with stop-cock and Elastic Syringe, A. Flint's. Plate 3. Fig. 28. With syringe	5 00
--	------

(From *A. Flint's Practice of Medicine*, page 163.)

For several years past, in place of the suction pump employed by Wyman & Bowditch, I have used a similar apparatus, namely, a small trocar and canula fitted to screw upon the flexible suction tube of Davidson's Syringe. The canula should be provided with a stop-cock. The trocar and canula being introduced within the chest, the trocar is withdrawn and the canula attached to the syringe; the liquid is then removed by means of the expansion of the India-Rubber suction bulb after its compression with the hand. I have used this apparatus in many cases with satisfactory results. It has also been used with success by many others.

Aspirator, Peaslee's. Plate 3. Fig. 26. Price with two needles, one trocar and canula, in case.....	\$15 00, \$17 00 and 21 00
--	----------------------------

It has a glass cylinder, over which for protection a metal covering is placed, the latter is open only on one side so the graduations on the piston rod can be seen.

A, instrument, $5\frac{3}{4}$ inches long; *B*, gilt tube, 3 inches long, and $\frac{1}{16}$ to $\frac{1}{8}$ inch in diameter, with bevelled point; *B'*, similar tube, $4\frac{3}{4}$ inches long; *C*, rubber tube, to be attached to arm *a*, by which the fluid, drawn from the cyst through *a'*, is forced out. The stop-cocks at *a* and *a'* are both shown as closed.

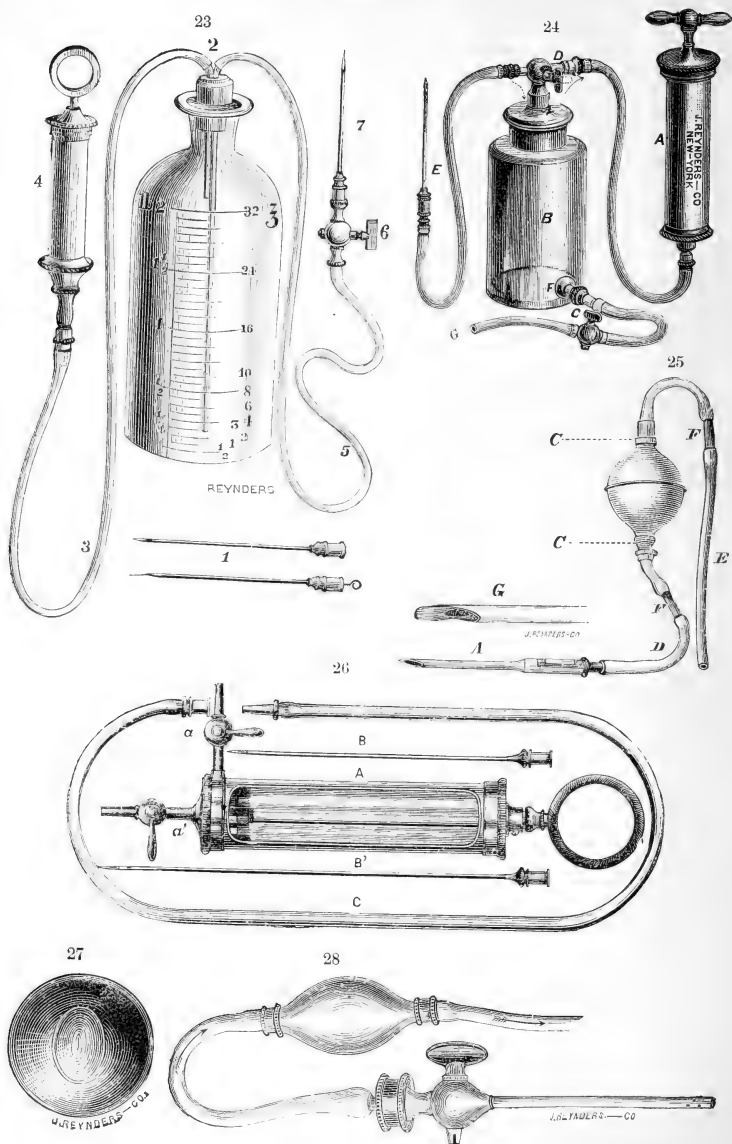
The gilt tubes *B*, *B'* are to be adjusted on the conic fitting of the rubber tube *C*, and the other end of the latter on one of the stop-cocks *a'* or *a*.

Aspiration (after insertion of one of the gilt tubes) is made by closing both stop-cocks and drawing the piston back, the latter will retain its position at the upper part of the cylinder by giving it half a turn.

The stop-cock *a'* (to which the tube is attached) is then opened and the fluid will enter the cylinder, when the latter is filled it can be emptied by closing the stop-cock *a'*, opening *a*, and pushing the piston forward. After closing both stop-cocks again more aspirations can be made in the same manner.

This instrument can be used for injection as well as for aspiration.

Plate III.



Aspirator, Potain's; with plain aspirating pump, three needles, one trocar and canula, in a neat morocco case. Fig. 23.....	\$16 00
The same, with a compound aspirating pump.....	18 00

It is reliable in action, of simple construction, and its low price places it within reach of every veterinary surgeon.

It consists of a clear glass bottle with a graduated scale showing the amount of fluid contained, closed by a rubber stopper, through the centre of which two tubes (2) pass, one of the latter reaching to the bottom of the bottle.

The short tube communicates by (3) an elastic hose with (4) an exhausting or injecting pump (5), another elastic hose which communicates with the long tube in the bottle, the stop-cock (6) on to the top of which a capillary tube or trocar is attached.

We also put with this aspirator a pump with two ends, (marked respectively *A* and *I*) by one of which aspiration, and by the other injection can be made, simply by making the connection with either, as the case may demand. No arrangement of valves is necessary.

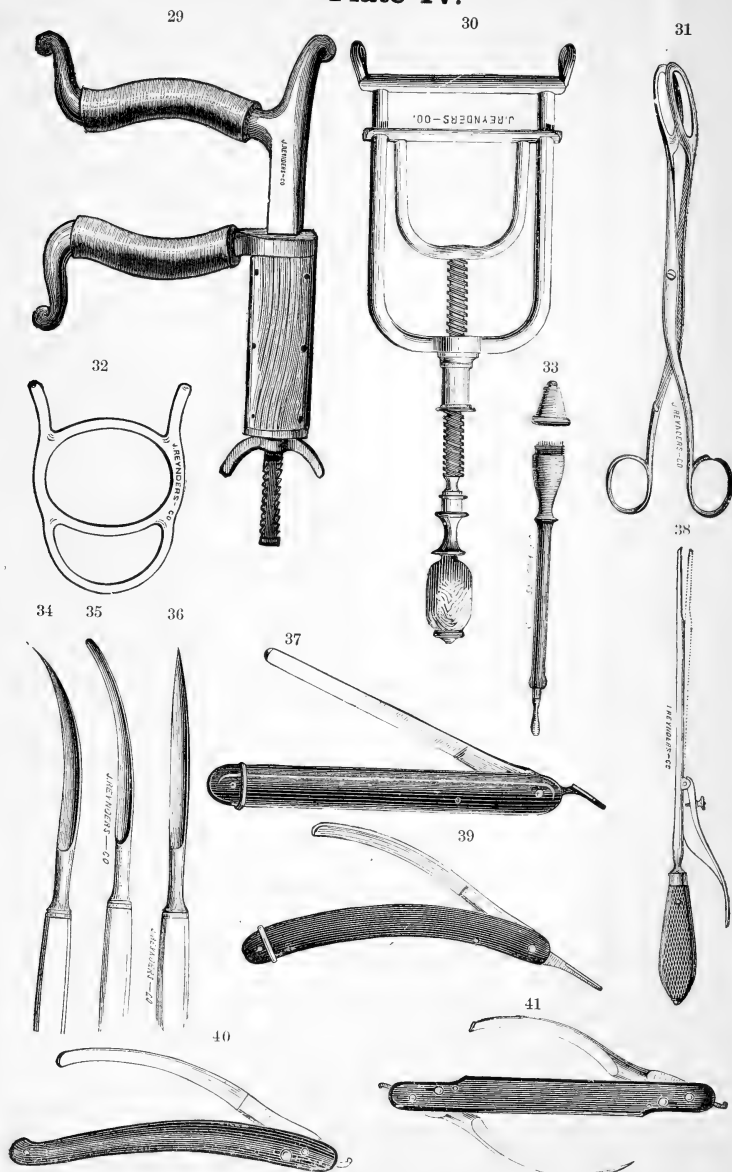
Aspirator, J. Reynders & Co.'s Improved; with plain aspirating pump, two needles, one trocar and canula, in a neat morocco case. Fig. 24..	16 00
The same, with a compound aspirating pump.....	20 00

The advantage of this aspirator is compactness. Its bottle is small but nevertheless it is as efficient as an apparatus with bottle of any larger size. This is achieved by the hole in the bottle, at *F*, through which the contents can be emptied most conveniently by opening the stop-cock *C*, and removing the fitting *D*, connected with the pump, from the bottle *B*. The stop-cock at *D* controls communication from the bottle with the pump as well as through the needle. To exhaust the bottle of air the stop-cock *C* is closed and the stop-cock at *D* turned as shown in the figure and the pump worked. By turning the stop-cock at *D* horizontally as shown by the dotted lines, communication through the needle to the bottle is established.

Atomizer, for making applications of spray to sensitive eyes and sores. Plate 1. Fig. 6.....	1 50
Automatic Tooth Rasp, E. A. A. Grange's.	

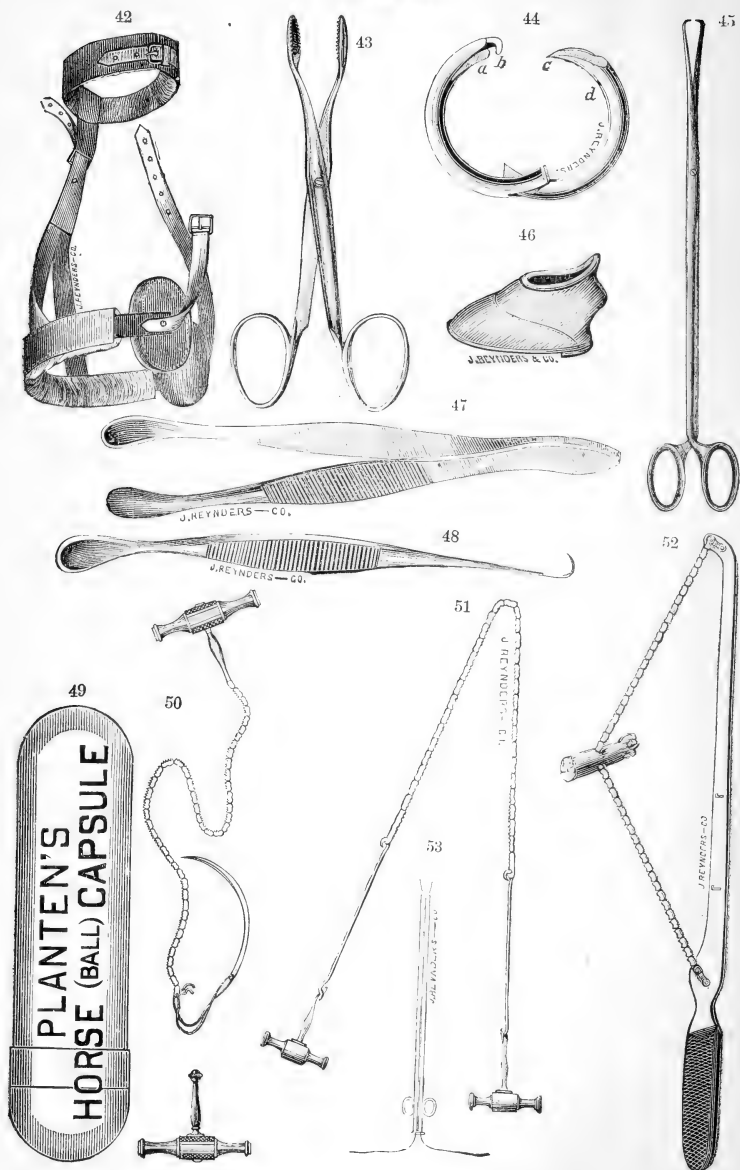
Balling Gun, brass.....	3 00
“ “ Goodwin's, with soft rubber end for protection of soft parts of the mouth.....	9 00
Balling Irons, for introducing balls with the hand. Plain japanned. Plate 4. Fig. 32.....	1 00
Balling Irons, fine polished and nickel plated. Plate 4. Fig. 32.....	2 00
“ “ Improved, with regulating screw, Prof. Varnell's, covered with India rubber to protect the gums. Plate 4. Fig. 29.....	9 00
Balling Iron, Improved, with regulating screw, French model. Plate 4. Fig. 30.....	17 50
Bands for Neurotomy..... each	2 00
Bandages, Derby..... four 1.00*; 4 doz.	10 00*
Baunscheidt's Instrument for Counter-Irritation. Plate 4. Fig. 33.....	3 50
Baunscheidt's Oil, per bottle.....	2 00
Bistoury, curved, sharp pointed, in ebony handle. Plate 4. Fig. 34...	1 00
“ “ “ “ in ivory handle.....	1 25
“ “ “ “ closing into plain hard rubber handle.	1 50
“ “ “ “ closing into hard rubber handle with slide catch.....	2 50
“ “ probe pointed, in ebony handle. Plate 4. Fig. 35..	1 00
“ “ “ “ in ivory handle.....	1 25
“ “ “ “ closing into plain hard rubber handle. Plate 4. Fig. 39.....	1 50

Plate IV.



Bistoury, curved, probe pointed, closing into hard rubber handle with slide catch. Fig. 40.....	\$ 2 50
Bistouries, curved, sharp and probe pointed, closing into one plain hard rubber handle	2 00
Bistouries, curved, sharp and probe pointed, closing into one hard rubber handle with slide catches. Fig. 41	3 50
Bistoury, straight, sharp pointed, in ebony handle. Fig. 36	1 00
“ “ “ “ in ivory handle	1 25
“ “ “ “ closing into plain hard rubber handle..	1 50
“ “ “ “ closing into hard rubber handle with slide catch	2 50
“ “ probe pointed in ebony handle	1 00
“ “ “ “ in ivory handle	1 25
“ “ “ “ closing into plain hard rubber handle. Fig. 37.....	1 50
“ “ “ “ closing into hard rubber handle with slide catch.....	2 50
Bistouries, straight, sharp and probe pointed, closing into one plain hard rubber handle	2 00
Bistouries, straight, sharp and probe pointed, closing into one hard rubber handle with slide catches	3 50
Bistoury Caché, 10 inch, with regulating screw, to cut any required depth. Fig. 38.....	8 00
“ “ 18 inch, extra strong.....	12 00
Bitch Forceps. Fig. 31.....	4 00
Blackwell's apparatus for douching legs of horses. Plate 1. Fig. 4	8 00
Blood Sticks, hard wood	0 50
“ “ filled with lead	2 00
Bog Spavin Truss, Prof. Goings's. Plate 5. Fig. 42	7 00
Bog Spavin and Thorough Pin Truss combined	10 00
Bone Cutting Forceps, straight edged. According to size \$3.50; 5.50 and	7 00
Bone Cutting Forceps, curved on flat	3 50
“ “ angular	3 50
Bone Saw, with Pistol handle. Plate 21. Fig. 245.....	5 00
“ “ Parker's	4 50
“ “ with movable back Plate 21. Fig. 252	5 00
Bone Gnawing Forceps. Plate 14. Fig. 167.....	3 50
Bone Forceps, for breaking off pieces of decayed bone. Plate 19. Fig. 217	3 00
Boots, Stuffing. No. 1, $4\frac{1}{2} \times 5\frac{1}{2}$ in. shoe measure. Plate 5. Fig. 46. each	1 50*
“ “ No. 2, $5 \times 6\frac{1}{2}$ “ “ “ “ “ “ each	1 75*
“ “ No. 3, $5\frac{1}{2} \times 6\frac{3}{4}$ “ “ “ “ “ “ each	2 00*
“ “ No. 4, 6×7 “ “ “ “ “ “ each	2 25*
This boot is a perfect luxury to the horse, as he can walk about or lay down at his own pleasure while using it, and is much more effective than the old method of sponge, cloths, etc. They are held in position by their own elasticity, therefore doing away with straps and buckles.	
Bow or Dressing Forceps. Plate 5. Fig. 43. 5 inches in length.....	1 25
“ “ “ “ “ “ $6\frac{3}{4}$ inches in length.....	1 75
Budding Iron.....	1 50

Plate V.



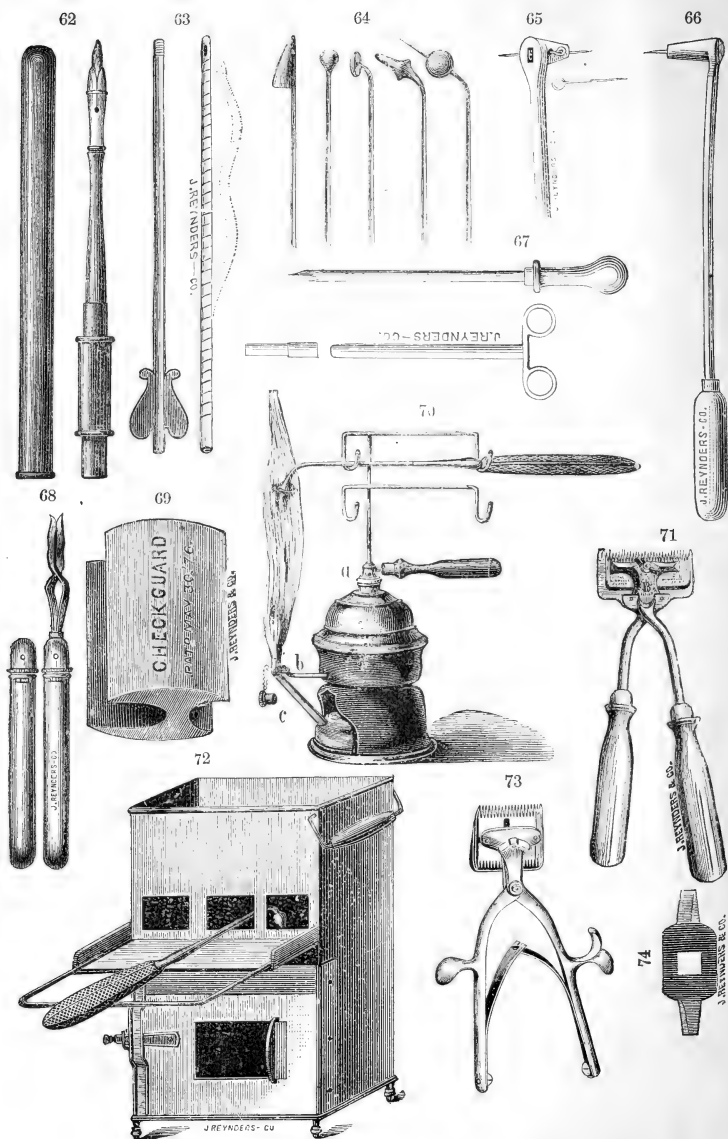
Bull Rings, self-perforating, hinged and with spring catches, of 2, 2½ and 2¾ inches inside diameter. Fig. 44.....	each	\$1 00
Bull Nasal Septum Punch, for cutting out a circular piece of cartilage prior to the insertion of an ordinary ring.....		7 00
Bullet Forceps. Fig. 45.....	Length 10 inches \$3.00; Length 20 inches	5 00
Camman's Stethoscope, plain. Plate 22. Fig. 261.....		4 50
" " with plain metal spring		5 00
" " with metal spring and graduating screw		6 00
" " Knight's modification		8 00
" " J. Reynders & Co.'s modification. Plate 22. Fig. 262.....		2 50
Caponizing Forceps, old model. Fig. 47.....		1 50*
" Hook and Spoon. Fig. 48.....		1 00*
" Double Canula. Fig. 53.....		1 50
" Retractors, on whalebone spring or elastic web		1 50*
" Instruments, Farmer Miles, consisting of knife, spreader and forceps, in a neat case, with full directions		7 00*
Capsules for Horse Balls, H. Planten & Son's.		
Ten ½ oz. Capsules, in box. Fig. 49.....		0 50*
Ten 1 oz. Capsules, in box.....		0 50*
The superior advantages of these capsules are obvious. The Ball mass is placed into the Capsule, (made of Gelatine which is perfectly harmless and immediately dissolved in the stomach) the latter closed by its cap and hermetically sealed, by slightly gumming the interior edges of the cap before sliding into position, or by means of the gummed strips of paper contained in the box.		
The Capsule will not only prevent the Ball from getting dry and hard, but will preserve its purity and power for any reasonable time, and ensure the effectiveness of the medicine—especially when such drugs as camphor, ammonia, or essential oils are prescribed.		
Carbolized Catgut Ligature, (heavy) per bottle.....		0 75
Carbolized Silk, four sizes, per board		0 45
Castrating Clamp, with spring regulating ratchet catch. Plate 6. Fig. 55		6 50
" " similar to Fig. 55 but with a slide catch on the handles		5 50
" " French model, with ratchet catch between the handles. Plate 6. Fig. 59.....		10 00
" " Mink's		7 00
" " McKenzie's. Plate 6. Fig. 54.....		8 00
" " House's latest. Plate 6. Fig. 60.....		10 00
Castrating Clamp, William's. Fig. 56		7 50
Castrating Clams of hard wood. Fig. 57. Pair		0 75
" " forceps, for closing. Fig. 58.....		7 00
" " forceps, for closing, with regulating ratchet catch		4 75
" " vice. Fig. 61.....		4 00
Castrating Torsion Forceps, William's		5 50
Castrating Ecrasseurs, see "Ecrasseurs."		
Castrating Knife		2 00
" " French model.....		2 50
Catgut Ligature, specially prepared for this purpose (must be drawn through warm water before using to make it pliable). Four sizes.....	Per roll	0 25

Plate VI.



Catheters, elastic, for horses.	First quality, each	\$3 00
“ “ “ “	Second quality, each	2 50
“ “ “ “	With whalebone stilet. First quality	5 00
“ “ “ “	“ “ “ Second quality	4 50
Catheter, metal, for horses, with flexible end made of a strip of metal or wire wound spirally. Separating into two parts. Plate 7. Fig. 63		4 00
Catheter, elastic, for mares		1 25
“ soft metal, for mares		2 50
Cattle Trocar, round, with cap and ring handles attached to the canula. Plate 7. Fig. 67		4 00
“ “ oval		3 00
Caustic Holder, all hard rubber, of three lengths	\$0.50; \$0.65 and	0 75
“ “ hard rubber case, silver burner. Plate 7. Fig. 62		1 25
“ “ “ “ “ platinum burner. Plate 7. Fig. 62		2 75
“ “ aluminum case, platinum burner		5 00
“ “ “ “ with platinum self-closing spring burner. Plate 7. Fig. 68		8 50
“ “ silver case, silver burner	3 inch \$1.40; 4 inch	2 00
Cautery Irons, 9 patterns, unpolished, in handles	each	1 50
“ “ 9 patterns, polished, without handles. Plate 7. Fig. 64		each 1 50
“ “ Ebony handle, with fastening screw, for the latter		3 50
“ “ for pyropuncture		5 00
“ “ point, in handle		1 50
“ “ line, in handle		1 50
“ “ with three changeable iron points. Plate 7. Fig. 65		3 50
“ “ with platinum point. Plate 7. Fig. 66		4 00
“ “ Forge. Plate 7. Fig. 72		7 50
“ Lamp, self blowing. Plate 7. Fig. 70		7 50
“ Dr. Paquelin's. For description, etc., see “Paquelin's Thermo Cautery.”		
Chain Saw. Plate 5. Fig. 50		10 00
“ “ Carrier. Without chain. Plate 5. Fig. 52		5 50
“ “ Extra strong for dental purposes. Plate 5. Fig. 51		12 50
Charlier's Plane, for shoeing à la periplantaire		3 50
Charlier's Rasp, for rasping the groove required by the Charlier shoe		3 00
Charlier's Shoe, (model)		1 00
Chassaignac's curved Ecraseur. Plate 12. Fig. 128		27 00
“ small chain Ecraseur for the removal of polypi		20 00
Check Rein Guard. Plate 7. Fig. 69		0 25*
This is to prevent the check rein from slipping out of the check hook when the horse throws his head up. It can be applied to any check hook.		
Clamp Forceps, Arterial, straight or curved. Plate 2. Fig. 12		0 70*
“ “ “ with scissor handles and catch. Plate 14. Fig. 171		2 50
Cleborne's Artery Forceps. Plate 2. Fig. 16		3 50

Plate VII.



Cleborne's Combination Pocket Case Instrument, containing Tenaculum,
2 hollow needles for suture wire, and wire twister. Plate 18. Fig. 210. \$7 00
Clinical Thermometers, see "Thermometers."

Clippers, for Two Hands, of Phipp's and Burman's celebrated manufacture.

Their reversible Clippers have two sets of teeth—two Clippers in one. They sharpen themselves while in use. Their plates are reversible. They are regulated and controlled by a single bolt and nut acting upon an arched spring. They can be worked backwards. Their parts are interchangeable. They are easily kept in order and easily repaired. They make two patterns: "World's" and "Appex."

"World's." Plate 8. Fig. 75. The excellence of the World's Clipper, and its superiority over all others are generally admitted. Over 300 horses have been clipped with one of these machines without re-grinding. 4 50*

Separate Upper Reversible Plate \$1.50.* Lower Reversible Plate \$1.75.* Upper Handle (left) \$0.90.* Lower Handle (right) \$0.80.* Arched Spring \$0.15.* Bolt and Thumb Nut 0.25.*

"Handicap." Plate 8. Fig. 76. The plates and handles of this clipper are secured by separate bolts. The top plate can be removed without disturbing the handles. The "Handicap" has no superior, except the reversibles. 3 25*

Separate Upper Plate \$1.20.* Lower Plate \$1.30.* Handle (right) \$0.60.* Handle (left) \$0.50.* Arched Cap \$0.25.* Bolt and Thumb Nut \$0.20*

"Albion." Plate 8. Fig. 77. A double screw clipper arranged for the use of *left-handed* men. First class in every particular. It is supplied, free of charge, with a wrench fitting accurately the nuts on the bolts. 3 00*

Separate Top Plate \$1.20.* Bottom Plate \$1.30.*

"Peerless No. 3 Toilet." Plate 8. Fig. 78. With exception of the handles which are arranged for use with one hand, this Clipper is similar in construction to the Handicap. The handles are moulded to fit closely to the shape of the hand, giving a firm easy hold and avoiding all needless pressure or strain. Polished \$3.50 ;* nickelplated. 4 00*

Separate Handle Springs, pair \$0.50.* Other separate parts, the same list as Handicap.

"Duplex Toilet." Fig. 73. Reversible, Self-sharpening and Interchangeable. With regulator, polished \$4.50.* Nickelplated. 5 00*

Separate Handle Springs, pair \$0.50.* Other separate parts, the same list as World's.

For other Clippers of Phipp's and Burman's celebrated manufacture see Appendix.

William Bowen's Patent "Newmarket." Fig. 71. 3 75*

" " Improved. 3 00*

" " Patent "Newmarket Toilet." Plate 8. Fig. 83. 3 75*

Separate Parts for the above, Upper Plates. each 1 50*

" " " " Lower " 1 50*

Leather bags to fit over the plates and to prevent damage when not in use, are furnished with Clippers free of charge.

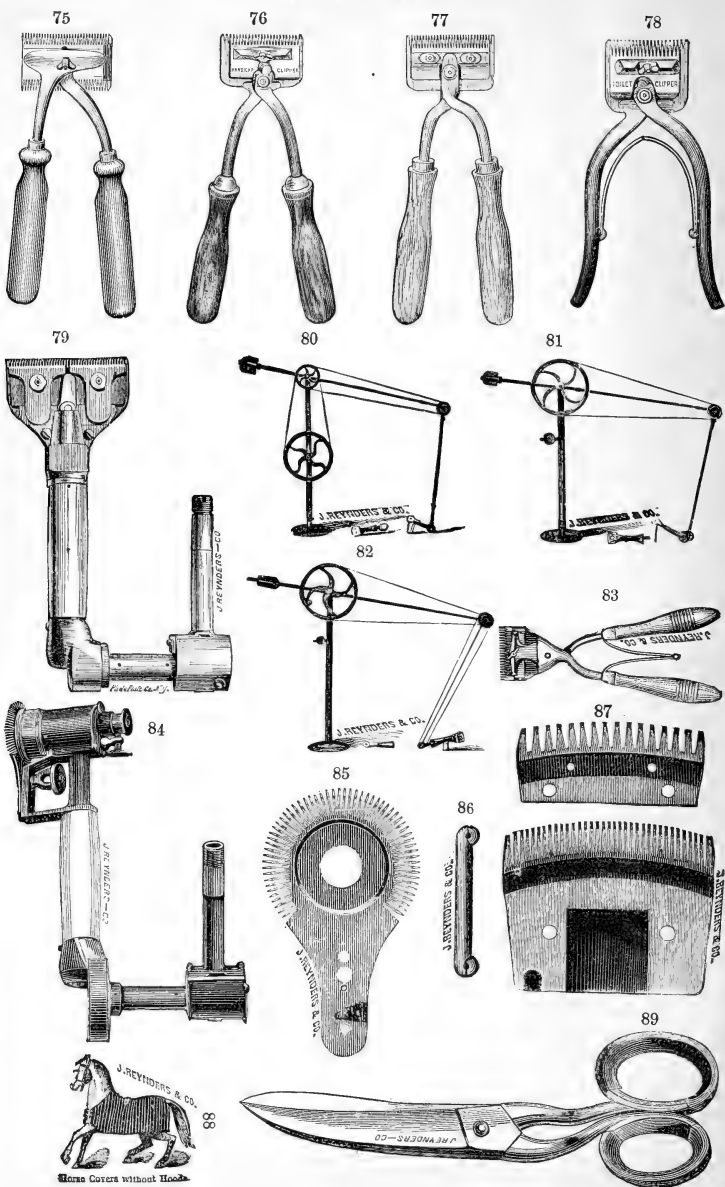
Clipping Machines ; No. 1, Power Horse Clipper. Page 8. Fig. 80 . . . 75 00*

This is the perfection of a Horse Clipper. It combines perfect freedom of motion with extensive range. The connection for conveying power from the boy who turns, to the cutter in the handle is positive, and there is the least possible waste of power. It is easily kept in order. With this machine the purchaser can have a handle with rotary or vibrating cutters, at his choice. The rotary cutter is much the best for shearing the head and legs and works nicely on the body of the horse, but some prefer the vibrating cutter because it cuts faster.

No. 2. Power Horse Clipper. Plate 8. Fig. 81. 50 00*

The cutters and handles of this machine are precisely the same as those of No. 1. The machine is made on the same principle, but the parts which convey the power to the handle, are shorter, and consequently the operator cannot reach as far, and is obliged to move the machine oftener to clip all parts of the horse.

Plate VIII.



No. 3. Power Horse Clipper. Fig. 82.\$35 00*

This machine is the same size and has the same range as No. 2. It has vibrating cutters. It will be seen by the cut that the power is conveyed from the balance arm to the handle by a belt, which is not quite as convenient, but will do just as good work and just as fast as any other form of the machine.

This machine has the advantage of being noiseless.

Clipping Machines; No. 4. Power Horse Clipper..... 50 00*

This machine is driven by compressed air, and consists of an air pump, a rubber hose eight feet long and a handle with an air engine in it. It has circular vibrating cutters. Although turning somewhat harder than Nos. 1, 2, or 3, it is preferred by some to any other. Its range is extensive, and it is noiseless.

No. 6. Power Sheep Shearing Machine..... 50 00*

This is the only reliable sheep shearer that has ever been thrown upon the market. It gives great satisfaction to all who use it enough to become familiar with it.

An expert will shear ten sheep an hour, easily, as sheep are shorn in New England. Of course the question of speed in shearing involves the condition of the sheep and the experience of the shearer.

This machine is also used for shearing pelts, both fresh and dry. It cuts the wool of equal length and if properly used never clips the wool the second time. Indeed prominent manufacturers say that the wool is worth at least one cent a pound more if cut by this machine than it is when cut by common shears.

Handle for Power Horse Clippers, with rotary cutters, complete.

Fig. 84. 20 00*

Separate Rotary Comb for the same. Fig. 85. Large size..... 4 00*

“ “ “ “ “ Fig. 85. Small size..... 3 50*

Separate Rotary Cutters for the same. Plate 7. Fig. 74. Large size..... per doz. \$3 00*. Small size.....per doz. 2 00*

Handle for Power Horse Clippers, with vibrating cutters. Fig. 79.. 18 00*

Separate Comb for the same. Fig. 87..... 2 00*

“ “ “ “ “ Fig. 87..... 1 00*

Clipping CombsHorn, \$0 25*. Steel, \$1 50. German Silver, 1 25

Clipping Shears, slightly curved. 1 25

“ “ full curved 1 50

“ “ “ “ with leather covered handles. Fig. 89. 1 75*

Cocum Trocar 3 00

Compound Pulleys for Parturition, complete with rope. Plate 19.

Fig. 225..... 5 00

Comb for manes 0 20*

Collin's Lamp for illuminating the mouth. nasal, rectal and vaginal cavities. Plate 15. Fig. 185.....\$7.00; in case 9 00

Copeman's Needles, three in one handle. Plate 19. Fig. 223..... 3 00

Covers of Soft Rubber for Horse Bits. No. 1, $\frac{3}{4}$ inch diameter by 5 inches long. Fig. 86 0 75*

Covers of Soft Rubber for Horse Bits. No. 2, $\frac{3}{8}$ inch diameter by 5 $\frac{1}{2}$ inches long. Fig. 86 0 75*

Covers of Rubber for Horses. Without Hood. Lustre Sheeting. Fig. 88. 4 50*

“ “ “ “ “ Lustre Drill 5 25*

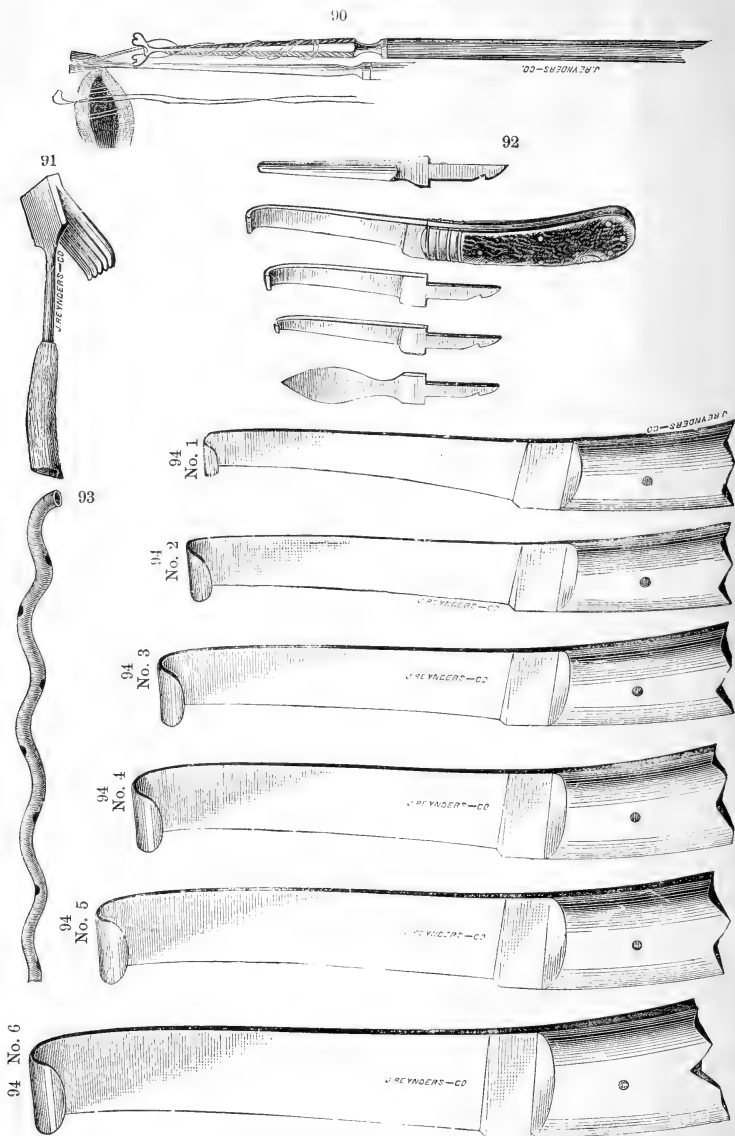
“ “ “ “ With Hood. Lustre Sheeting..... 6 25*

“ “ “ “ “ Lustre Drill..... 7 25*

Crotchet, Plate 20 Fig. 228B 3 00

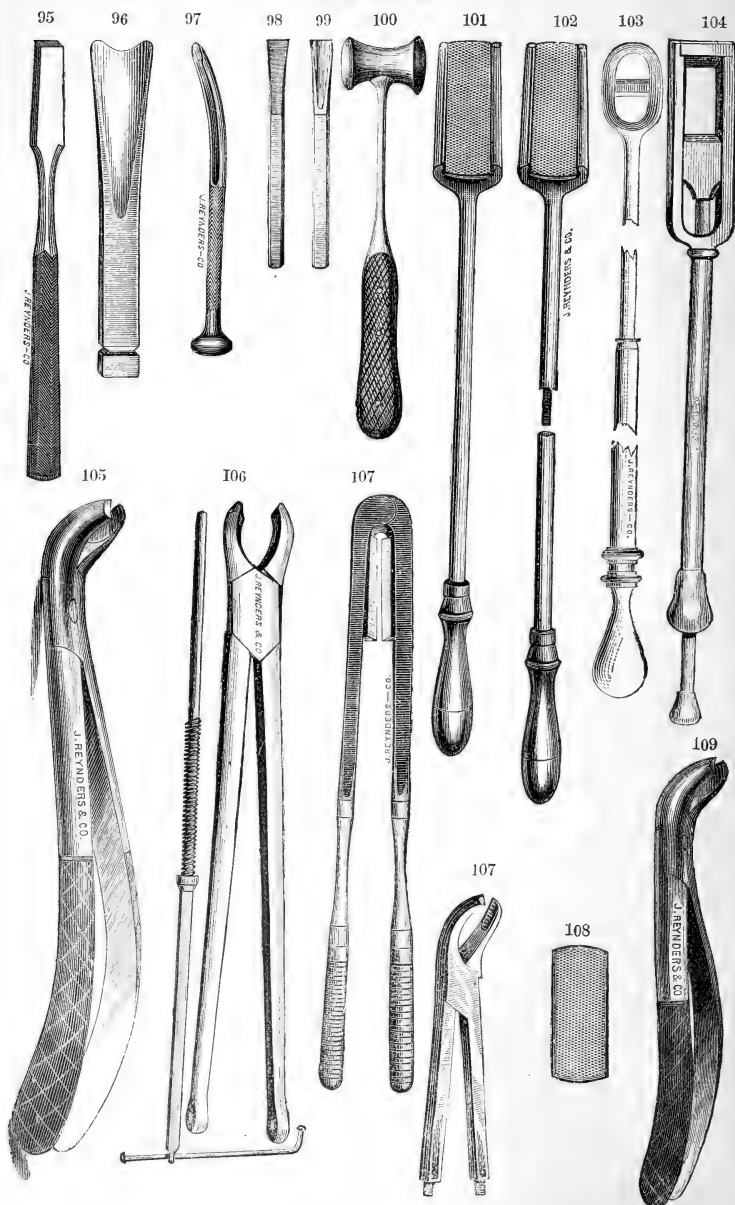
Crotchet Forceps, Tallish's, short 6 00

Plate IX.



Dawson's Wire Twister. For twisting loops of silver suture wire in cavities. Fig. 90	\$ 2 50
Drag for thinning out the hair of mane. Fig. 91.....	1 50*
Drainage Tubing. Per yard. Fig. 93.....	0 50
Drawing Knives, single edged, six sizes. Fig. 94 from No. 1 to 6 show natural sizes. Each	1 25
“ “ common. Each	0 50*
“ “ single edged, in ebony handles, French model. Each..	1 50
“ “ double edged, of two assorted widths of curve in ebony handles, French model. Each.....	1 75
“ “ small, single edged, closing into a handle, for pocket ..	1 50
“ “ graduated, for cutting the groove required by the Charlier Shoe. Mr. Fleming's.....	5 00
Drawing Knives, set of; consisting of three drawing knives of assorted sizes, one sharp pointed double edged sage knife and one reamer, fitting into one handle, with spring catch. In wrapper case. Fig. 92.	9 00
Drawing Knives, set of; consisting of two drawing knives of assorted sizes and one sharp pointed double edged sage knife fitting into one improved spring catch handle. Very neat and compact, intended for small pocket cases.....	6 00
Drawing Knives, set of; consisting of one single edged drawing knife for searching, two double edged drawing knives of assorted widths of curve, one sharp pointed double edged sage knife, one single edged right sage knife, one single edged left sage knife, all in ebony handles, French model. One plain forceps, one sharp pointed curved on flat scissors, one director and one silver probe; in mahogany case. Prof. A. Liatard's	16 00
Delafor'd's Graduated Lancet and Grooved Needle, for inoculating cattle, in case	7 50
Dental Chain Saw. Plate 5. Fig. 51	12 50
Dental Chisel, E. A. A. Grange's. The chisel is propelled by a screw and crank handle.	
“ “ Prof. Going's. Plate 10. Fig. 104	17 50*
“ “ French Model. Plate 10. Fig. 103	14 00
“ “ Plain; length 16 inches. Plate 10. Fig. 96.....	3 00
“ “ Plain; length 10 inches. Plate 10. Fig. 96	2 00
“ “ Narrow; length 6 inches. Plate 10. Fig. 95.....	1 25
“ “ Narrow; length 5 inches. Plate 10. Fig. 98.....	1 25
“ “ Narrow; length 4½ inches, with steel head.....	1 50
Dental Cutting Forceps, Liatard's; extra large and strong, one jaw hooked to prevent slipping; with closing screw and crank handle...	30 00
Dental Cutting Forceps, Möller's. Plate 11. Fig. 111.....	32 00
“ “ “ Möller's, with plain closing screw and crank handle.....	30 00
“ “ “ French model. Plate 11. Fig. 112	20 50
“ “ “ “ “ Plate 11. Fig. 110	25 00
“ “ “ House's. Plate 11. Fig. 113.....	6 50

Plate X.

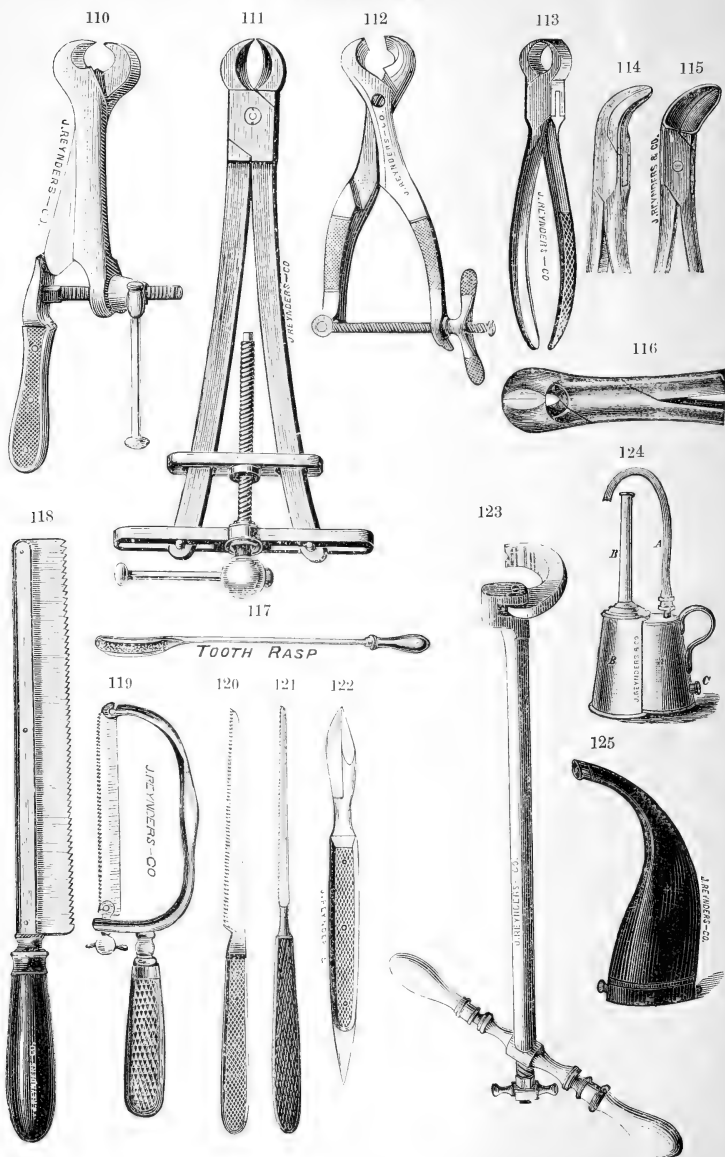


Dental Cutting Forceps, House's. Plate 11. Fig. 116	\$ 6 50
“ “ “ “ angular. Plate 11. Fig. 115	6 50
“ “ “ “ curved on flat. Plate 11. Fig. 114...	6 50
Dental File, Adjustable; in stiff handle. Fig. 101.....	3 00
“ “ Adjustable; handle to unscrew into two parts. Fig. 102...	4 00
“ “ Extra; for the Adjustable. Fig. 108	0 40
“ “ House's; in stiff handle	3 00*
“ “ House's; handle to unscrew into two parts.	4 00*
“ “ Extra; for House's	0 40*
“ “ Automatic, E. A. A. Grange's.	
“ “ House's; for front teeth ..Plate 29. Fig. 333 .. .	1 00
“ “ Plain; for front teeth.....	1 00
“ “ Improved cut; in handle, for front teeth	3 00
Dental Forceps, length 7½ inches.....	1 75
“ “ for wolf teeth, length 9 inches. Fig. 109	3 50
“ “ length 15 inches. Fig. 105	5 50
“ “ Prof. Goings's; extra large and strong with closing screw and crank handle. Fig. 106	25 00
“ “ House's, combined with dental cutting forceps; one set of removable handles to both. Fig. 107.....	28 00
Dental Gouges, length 5 inches. Fig. 99.....	1 50
“ “ length 4½ inches, with steel heads. Fig. 97	2 00
Dental Hook, House's.....	2 00
Dental Key, with hooks of assorted sizes. Plate 11. Fig. 123.....	35 00
Dental Knife and Pick, Hurlburt's. Plate 11. Fig. 122.....	2 00
Dental Mallet, lead filled, not rebounding. Fig. 100.....	2 50
“ “ boxwood.....	0 50
Dental Pick, right	1 60
“ “ left	1 60
Dental Rasp, plain; stiff handle	1 75*
“ “ guarded; stiff handle. Plate 11. Fig. 117	3 00*
“ “ plain; handle to unscrew into two parts	2 50*
“ “ guarded; handle to unscrew into two parts.....	3 75*
Dental Saw, plain. Plate 11. Fig. 120.....	1 50
“ “ fine ferruled. Plate 11. Fig. 121	1 75
“ “ French model. Plate 11. Fig. 118	3 50
“ “ Bow. Plate 11. Fig. 119.....	6 00
Drenching Horn, J. Reynders & Co.'s. Plate 11. Fig. 124	2 00

This has been devised with a view to obviate all difficulty in administering fluid medicine to horses and cattle. It consists of two compartments A and B; B communicating with the metal tube B and A with the soft rubber hose A. The vessel B is to hold the medicated fluid and A luke warm water, which may be filled in through C. The soft rubber hose A is introduced into one of the nostrils and the metal tube B into the mouth; the horn is then to be tilted upwards, when the water will enter the nostril, force the animal to swallow and take the medicine without difficulty.

Drenching Horn, tin. Plate 11 Fig. 125	1 00
Dressing Forceps. Plate 5. Fig. 43. 5 inch, \$1 25. 6¼ inch.....	1 75

Plate XI.



Dressing Materials.

ABSORBENT COTTON.

Our Absorbent Cotton is put up in neat and substantial boxes (where it may be kept in a compact and clean condition until used up) in such sizes as will be found convenient for its various uses, as follows

(a) in bales of 25 lbs . . . per lb.	\$1 00	(d) in $\frac{1}{8}$ lb. boxes . . . per box	\$0 35
(a) in 1 lb. boxes per box	1 35	(a) in $\frac{1}{16}$ " " " "	0 20
(d) in $\frac{1}{2}$ " " " " " "	1 00	(d) in $\frac{1}{32}$ " " " "	0 10
(d) in $\frac{1}{4}$ " " " " " "	0 50		

Hygroscopic Cotton Waste (for use in dispensaries), etc. per box 1 00

This cotton prepared from the best material, for use as a surgical dressing, commends itself on account of its purity uniformity of texture, and its property as an absorbent.

It absorbs fluids with great rapidity, and is therefore especially adapted for use as surgical dressing, for local application of medicated solutions, and as a substitute for sponge in surgical operations.

It is perfectly pure, having been carefully and thoroughly cleansed from oil, resin, and all extraneous matter.

It is uniform in texture, free from threads and knots, and felting together of its fibres make it preferable to scraped lint for many surgical purposes; and it is endorsed by every intelligent practitioner who has used it.

PURE COTTONS, MEDICATED.

Borated Cotton for dressing wounds, 23%, 1 oz. packages 0 20
 $\frac{1}{2}$ lb. " \$1 25; 1 lb. 2 00

Salicylated Cotton, 5%, 1 oz. package, \$0 20; $\frac{1}{2}$ lb., \$1 25. 1 lb. 2 25
 " " 11% " 3 25

Haemostatic Cotton, styptic per oz. \$0 25 " 2 50

Iodized Cotton 1 oz. 0 25 " 2 50

Carbolized Cotton 1 oz. 0 20 " 2 00

Jute, plain. per lb., \$0 30; per bale of 25 lbs. 6 75

Jute, carbolized " 0 40; " " 9 00

Marine Lint (Oakum). per lb. 0 75

Lister's Antiseptic Gauze, in 6 yard pieces Each 0 90

Lister's Silk Protective, best per yard 1 80

McIntosh (waterproof cloth). " 1 50

Oiled Muslin, best. " 1 00

Pink Jaconet, carbolized. " 1 80

Lister's Carbolized Catgut Ligature. Sizes, 0, 1, 2, 3, 4, (0 smallest)
 per bottle. 0 75

Large bottles of same containing assorted sizes Each 3 00

" Silk, 4 sizes. per board 0 45

Carbolized Drainage Tubing 0 50

Carbolic Acid, 8 oz., best. 2 00

Liquor Boracis comp. 1 lb. 1 00

Dressing Scissors, straight. Plate 22. Fig. 259. 5 inch, \$1 00; 6 $\frac{1}{2}$ inch 1 20

" " curved on the flat. Plate 23. Fig. 268 5 inch 1 50

6 $\frac{1}{2}$ inch 1 75

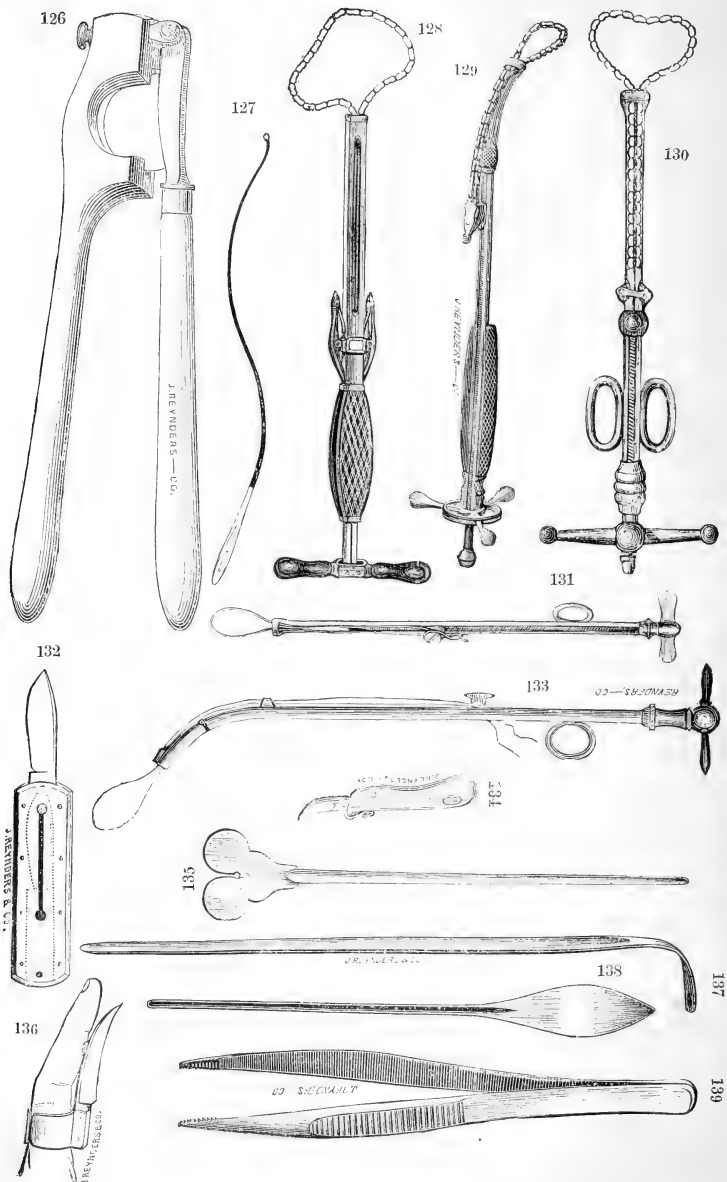
Dietrich's Needle for Vaginal Sutures, with removable steel point 2 00

Director with Aneurism Needle. Plate 12. Fig. 137 0 75

" " Myrtle Leaf. Plate 12. Fig. 138 0 75

" " Tongue Tie. Plate 12. Fig. 135 0 75

Plate XII.



Dissecting Cases. See "Enumeration and Contents of Cases."

Dissecting Forceps. Fig. 139.....\$ 0 75

Distentor, Vaginal, used in spaying. Plate 25. Fig. 307..... 10 00

Docking Shears. Fig. 126 best 11 50

Double Canula for Caponizing. Plate 5. Fig. 53 1 50

Ecrasseur, Maisonneuve's, curved. Fig. 129..... 20 00

“ “ with removable straight and curved attachments, two assorted chains, and four strengths of wire rope 36 00

Ecrasseur, Chassaignac's, curved. Fig. 128 27 00

“ French Model, with chain, as used by Dr. Liantard for spaying 22 00

“ Chassaignac's small, for the removal of polypi 20 00

“ Farmer Miles'. Fig. 130..... 20 00

“ Smith's, straight or curved, with wire. Figs. 131 and 133. Each 6 00

“ Improved for Wire, with regulating ratchet and key 18 00

Elastic Catheters for Horses. First quality..... 3 00

“ “ “ “ Second quality 2 50

“ “ “ “ First quality, with whalebone stylet 5 00

“ “ “ “ Second quality, with whalebone stylet ... 4 50

“ “ “ “ Made of a strip of metal or wire wound

spirally, separating into two parts. Plate 7. Fig. 63. 4 00

“ “ for mares..... 1 25

Elastic Probe, Steele's. Fig. 127 2 25

Embryotomy Knife, with ring. Fig. 136..... 1 75

“ “ concealed in hard rubber handle. Fig. 132 4 50

“ “ French model, concealed in ebony handle. Fig. 134. 4 50

Emmet's, Doctor, T. A., Forceps for twisting silver wire. Plate 14. Fig. 163. 2 75

Exploring Needle, in ebony handle..... 1 00

“ “ in ivory handle 1 25

“ “ closing into plain hard rubber handle 1 50

“ “ closing into hard rubber handle, with slide catch ... 2 50

“ “ in metal case. Plate 13. Fig. 159 1 25

Exploring Trocar. Plate 13. Fig. 161 1 50

“ “ with aspirating bulb 2 00

Eye Instruments.

Cataract Knife. Plate 13. Fig. 144 1 50

“ Needle, straight. Plate 13. Fig. 145 1 25

“ Needle, curved. Plate 13. Fig. 147 1 25

“ Scoop, hard rubber. Plate 13. Fig. 140 2 00

Cilia Forceps. Plate 13. Fig. 156 1 00

Discision Needle, Brogniez. Plate 13. Fig. 146 1 50

Drop Tube for Atropine. Plate 13. Fig. 152 0 20

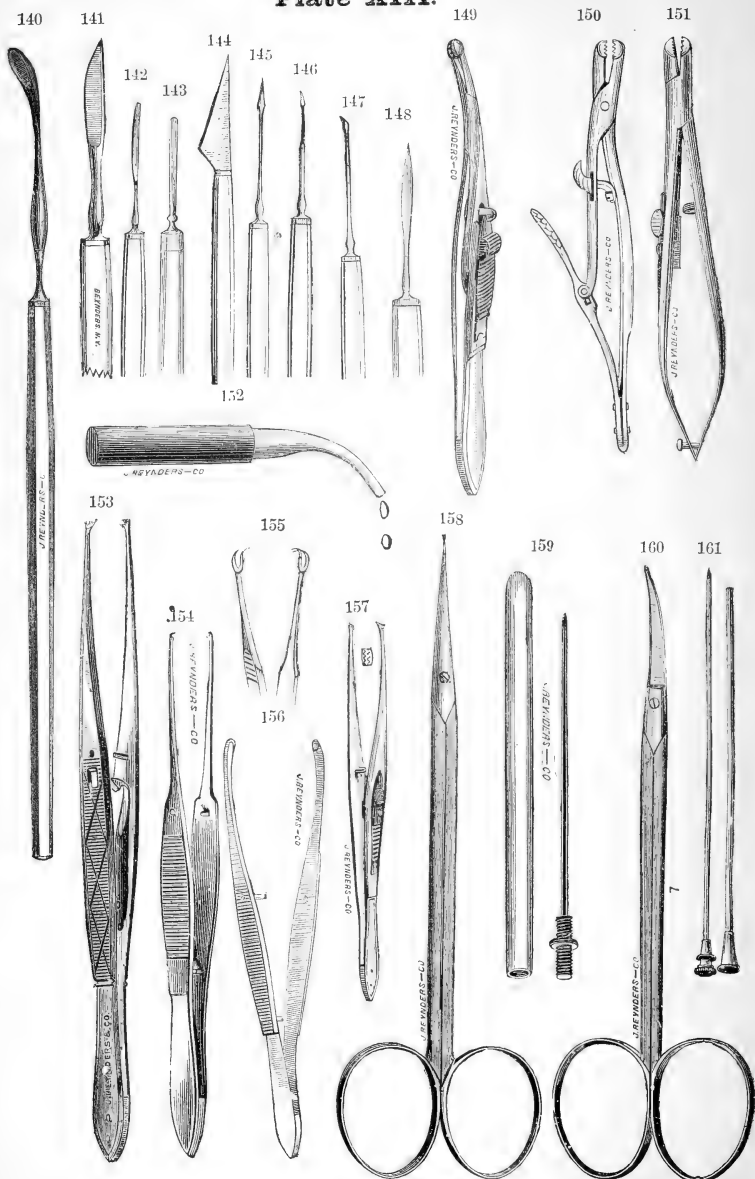
Fixation Forceps, slide catch. Plate 13. Fig. 157 3 00

“ “ spring catch. Plate 13. Fig. 153 2 00

“ “ plain 1 50

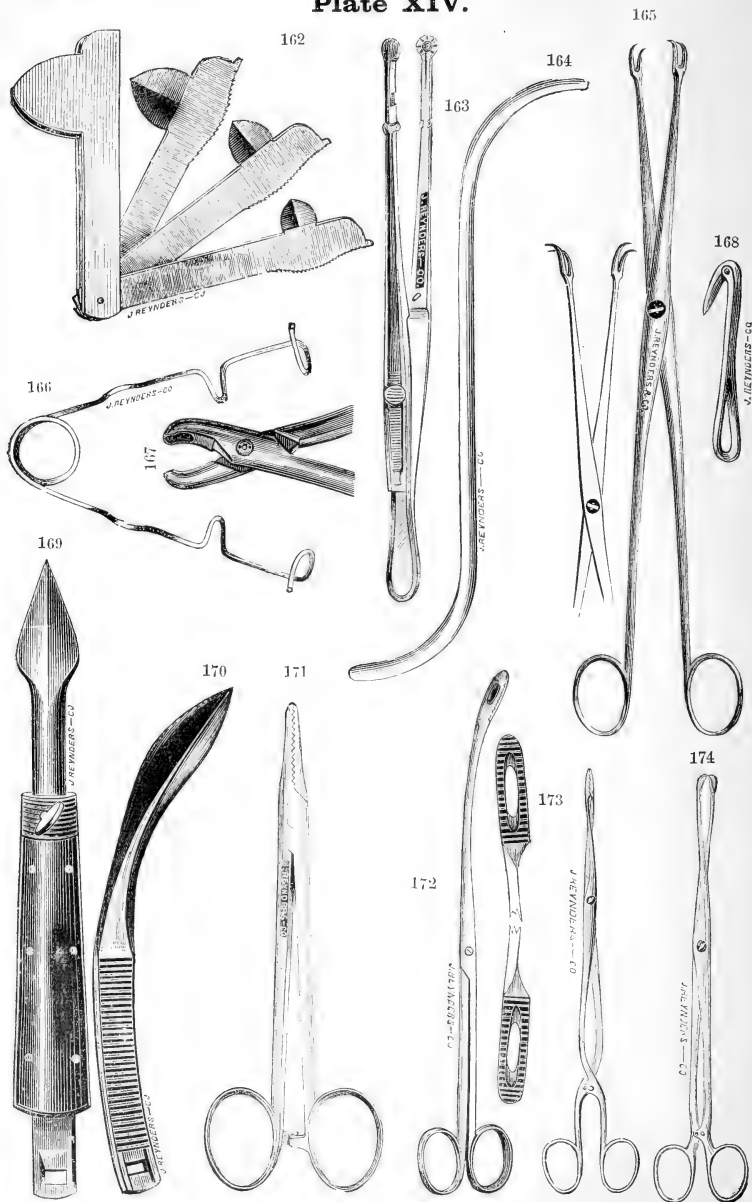
Forceps with Claws, for Enucleation of eye ball. Plate 13. Fig. 155. 1 50

Plate XIII.



Gouge, for the removal of foreign bodies. Fig. 142	\$ 1 50
Iris Forceps, straight. Fig. 154	1 50
" " curved	1 75
Iris Scissors, straight. Fig. 158	1 50
" " curved on flat. Fig. 160	1 75
" " curved angular.	2 25
Needle, broad. Fig. 148	1 50
Needle Holder, Sand's. Fig. 150	4 50
" " J. Reynders & Co.'s. Fig. 149	4 50
" " Prout's. Fig. 151	3 50
" " plain	2 50
Scissors, curved on flat for enucleation of eye ball	1 75
Speculum, plain. Plate 14. Fig. 166	1 50
" improved, Dr. W. O. Moore's	2 00
" with set screw	4 00
Eyes, Artificial, glass, of $1\frac{5}{16}$, $1\frac{3}{4}$ and 2 inches diameter, each	5 00
" " hard rubber, of $1\frac{5}{16}$, $1\frac{3}{4}$ and 2 inches diameter. Plate 3.	
Fig. 27. Each	4 00
F armer Miles' Caponizing Instruments, consisting of knife, spreader and forceps; in neat case, with directions.	
	7 00*
Farmer Miles' Castrating Ecraseur. Plate 12. Fig. 130	20 00
" " Leg Spreader	8 00
" " Spaying Knife, 4 bladed	7 00*
" " Spaying Scissors	8 00
" " Spaying Sound. Plate 14. Fig. 164	0 75*
" " Spaying Needle	1 25
Fleams, plain. Plate 14. Fig. 162. 1 blade \$1 25; 2 blades \$1 50; 3 blades	1 75
Fleams, fine, in nickelplated cases. 1 blade \$2 00; 2 blades \$2 50;	
3 blades	3 00
Fleming's Graduated Drawing Knife, for cutting the groove required by the Charlier Shoe. Plate 29. Fig. 328	5 00
Fleming's Neurotomy Knife, with eye near the point. Plate 18. Fig. 268	2 00
Fleming's set of Frost Cogs, consisting of two dozen cogs and two punches. Plate 29. Figs. 329, 330 and 331	6 00
Files for Teeth, see "Dental Files" or "Tooth Files."	
Finley's Hypodermic Syringe, hard rubber barrel, with two needles; in morocco case	3 00
Firing Irons, unpolished, in handles. 9 patterns. Each	1 50
Firing Iron Point	1 50
" " Line	1 50
Firing Irons, polished, without handles. Plate 7. Fig. 64. Each	1 50
" " ebony handle, with fastening screw for the latter	2 00
Firing Iron, for pyropuncture	3 50
" " with three changeable iron points. Plate 7. Fig. 65	3 50
" " with platinum point. Plate 7. Fig. 66	4 00
" " Forge. Plate 7. Fig. 72	7 50
" " Lamp, selfblowing. Plate 7. Fig. 70	7 50

Plate XIV.



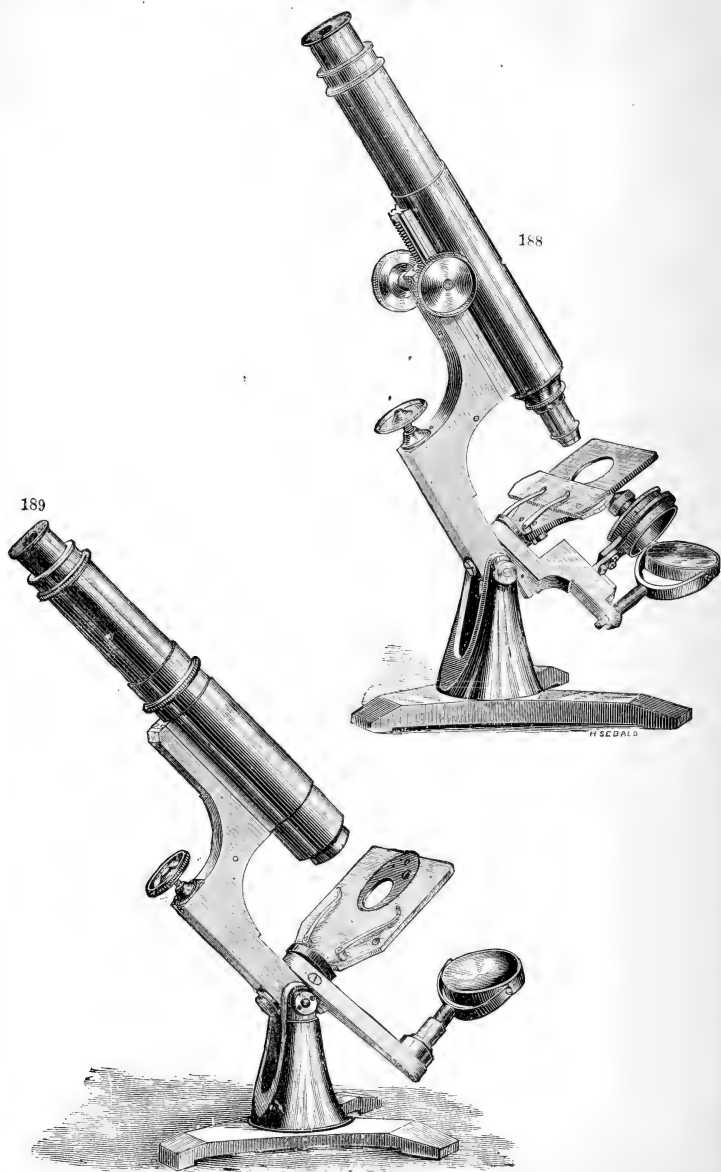
Fole Hooks, articulated, blunt and sharp. Fig. 168. Each.....	\$ 4 00
“ “ plain, blunt and sharp. Each	3 00
Fitch's Handy Aspirator. For description see "Aspirators." Plate 3. Fig. 25	5 00
Flint's Aspirator, Trocar and Canula, with stop-cock and Elastic Syringe. For description see "Aspirators." Plate 3. Fig. 28	5 00
Flint's Percussor. Plate 20. Fig. 231. Plain \$1 00; fine.....	1 75
Flint's Pleximeter. Plate 19. Fig. 222	0 25
Fricke's Artery Forceps. Plate 2. Fig. 18	2 50
Forceps, Artery, plain. Plate 2. Fig. 19.....	1 00
“ “ plain, with rat teeth. Plate 2. Fig. 20.....	1 50
“ “ plain, with spring catch. Plate 2. Fig. 15.....	1 75
“ “ with rat teeth and spring catch.....	2 00
“ “ Fricke's, with slide catch. Plate 2. Fig. 18.....	2 50
“ “ Bull Dog, with spring catch	2 50
“ “ Fenestrated with spring catch. Plate 2. Fig. 17.....	2 50
“ “ Fenestrated and combined with needle holder. Plate 2. Fig. 14.....	4 00
“ “ Cleborne's. Plate 2. Fig. 16	3 50
“ “ Clamp, straight or curved. Plate 2. Fig. 12. Each ..	0 70*
“ “ Torsion, with extra long slide catch. Plate 2. Fig. 13.	3 00
“ “ Clamp, latest, with scissor handles and catch. Fig. 171	2 50
“ Bitch. Plate 4. Fig. 31.....	4 00
Forceps, Bone Cutting, straight edged. Plate 19. Fig. 218. According to size	7 00
“ “ “ curved on flat	3 50
“ “ “ curved angular	3 50
Forceps, Bone Gnawing. Fig. 167.....	3 50
Forceps, Bow or Dressing. Plate 5. Fig. 43. 5 inch \$1 25; 6 $\frac{3}{4}$ inch..	1 75
Forceps, Bullet. 10 inch, with ratchet catch. Plate 5. Fig. 45	3 00
“ “ 20 inch, with ratchet catch. Plate 5. Fig. 45	5 00
Forceps, Caponizing. Old model. Plate 5. Fig. 47.....	1 50*
Forceps, Castrating, French model, with regulating ratchet between the handles. Plate 6. Fig. 59	10 00
“ “ with regulating ratchet for closing caustic clams ...	4 75
“ “ for closing caustic clams. Plate 6. Fig. 58.....	7 00
“ “ William's. Plate 6. Fig. 56.....	7 50
“ “ by Torsion, William's	5 50
Forceps, Dental, length 7 $\frac{1}{2}$ inches	1 75
“ “ for Wolf Teeth, length 9 inches. Plate 10. Fig. 109..	3 50
“ “ length 15 inches. Plate 10. Fig. 105.....	5 50
“ “ Prof. Going's, extra large and strong, with closing screw and crank handle. Plate 10. Fig. 106	25 00
“ “ House's combined, with dental cutting forceps, one set of removable handles to both. Plate 10. Figs. 107.	28 00
Forceps, Dental Cutting, Liautard's, extra large and strong, one jaw hooked to prevent slipping, with closing screw and crank handle ...	30 00
Forceps, Dental Cutting, Möller's. Plate 11. Fig. 111	32 00

Plate XV.



Forceps, Dental Cutting, Möller's, with closing screw and crank handle..	\$30 00
“ “ “ French model. Plate 11. Fig. 112.....	20 50
“ “ “ “ “ Plate 11. Fig. 110.....	25 00
“ “ “ House's. Plate 11. Fig. 113.....	6 50
“ “ “ “ “ Plate 11. Fig. 116.....	6 50
“ “ “ “ “ angular. Plate 11. Fig. 115.....	6 50
“ “ “ “ “ curved on flat. Plate 11. Fig. 114..	6 50
Forceps, Dissecting. Plate 12. Fig. 139.....	0 75
Forceps, Dog Obstetric. Plate 4. Fig. 31.....	5 00
Forceps for Breaking off Pieces of Decayed Bone. Plate 19. Fig. 217.	3 00
Forceps, Hoof Searching. Fig. 175.....	2 75*
Forceps for Closing Quarter or Sand Crack Clamps, of medium and small size. Plate 21. Fig. 242.....	6 50
Forceps for Closing Quarter or Sand Crack Clamps, of large size. Plate 21. Fig. 242	6 50
Forceps with two Sets of Jaws for closing Quarter or Sand Crack Clamps, of any size	12 50
Forceps, Parturition or Artificial Hand ; E. A. A. Grange's.	
“ “ Günther's ; large. Plate 20. Fig. 226.....	16 00
“ “ Tallich's ; short crotchet.....	6 00
Forceps, Pin or Wire Cutting.....	2 50
Forceps, Pin or Wire Cutting and Needle Holding. Stimson's. Plate 18. Fig. 213	3 50
Forceps, Polypus, straight..... 8 inches, \$2 50 ; 9 inches	3 00
“ “ “ curved, 8 inches. Plate 14. Fig. 172.....	3 00
“ “ “ straight 10 inches, with ratchet catch. Plate 14. Fig. 173.	3 50
Forceps, Vulsella, straight, 6½ inches	2 50
“ “ “ curved, 6½ inches.....	2 75
“ “ “ straight ; length, 10 inches, with ratchet catch. Plate 14. Fig. 174.....	3 50
“ “ “ Hank's, with reversible blades. Plate 14. Fig. 165...	3 00
Forceps, Wire (silver) Twisting ; Emmet's. Plate 14. Fig. 163.....	2 75
Floats, see “ Dental Rasps or Tooth Rasps.”	
Frog Seaton Needle, plain	1 25
“ “ “ “ roughened. Plate 14. Fig. 170.....	1 75
“ “ “ “ Sewell's. Plate 14. Fig. 169.	3 75
Frost Cogs, Fleming's, set of, consisting of two dozen cogs and two punches	6 00
Gas Singeing Apparatus, plain and without tubing. Plate 2. Fig. 10..	4 00*
“ “ “ “ with ball and socket joint, without tubing. Plate 2. Fig. 9	4 50*
Glass Alcohol Lamp.....	0 50
Graduated Drawing Knife, Fleming's, for cutting the groove required by the Charlier Shoe.. Plate 29. Fig. 328.....	5 00
Graduated Lancet and grooved Spatula, for inoculating cattle, Delaford's, in case	7 50
Graduates . . . 1 oz., \$0 40; 2 oz., \$0 50; 3 oz., \$0 60; 4 oz., \$0 75; 6 oz.	0 90
Graduates, minim, in case.....	0 50

Plate XVI.



Grange's, E. A. A., Automatic Tooth Rasp.	
Grange's, E. A. A., Artificial Hand or Paturition Forceps.	
Grange's, E. A. A., Dental Chisel. The latter is propelled by a screw and crank handle.	
Grange's, E. A. A., Speculum Oris. Plate 23. Fig. 277	17 00*
Gerlach's Set of Needles, consisting of two needles of assorted sizes and one sharp hook (Tenaculum) fitting into one spring catch handle.	
Plate 18. Fig. 209	4 00
Gerlach's Pocket Case, see "Enumeration and Contents of Cases."	
Going's Dental Chisel. Plate 10. Fig. 104.....	17 50*
Going's Dental Forceps, extra large and strong, with closing screw and crank handle. Plate 10. Fig. 106.....	25 00
Going, Prof., Bog Spavin Truss. Plate 5. Fig. 42	7 00
Goodwin's Balling Gun, with rubber end, for protecting the soft parts of the mouth.....	9 00
Guard for Check Rein. Plate 7. Fig. 69	0 25

This is to prevent the check rein from slipping out of the check hook when the horse throws his head up. It can be applied to any check hook.

Guards for Ankle, Universal. Plate 1. Fig. 8... ..	Each 1 00*
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These ankle guards, or protectors, are very light and soft, and perform the work much better than the hard and rigid ones in common use, and being continuous around the leg, they are always in position.

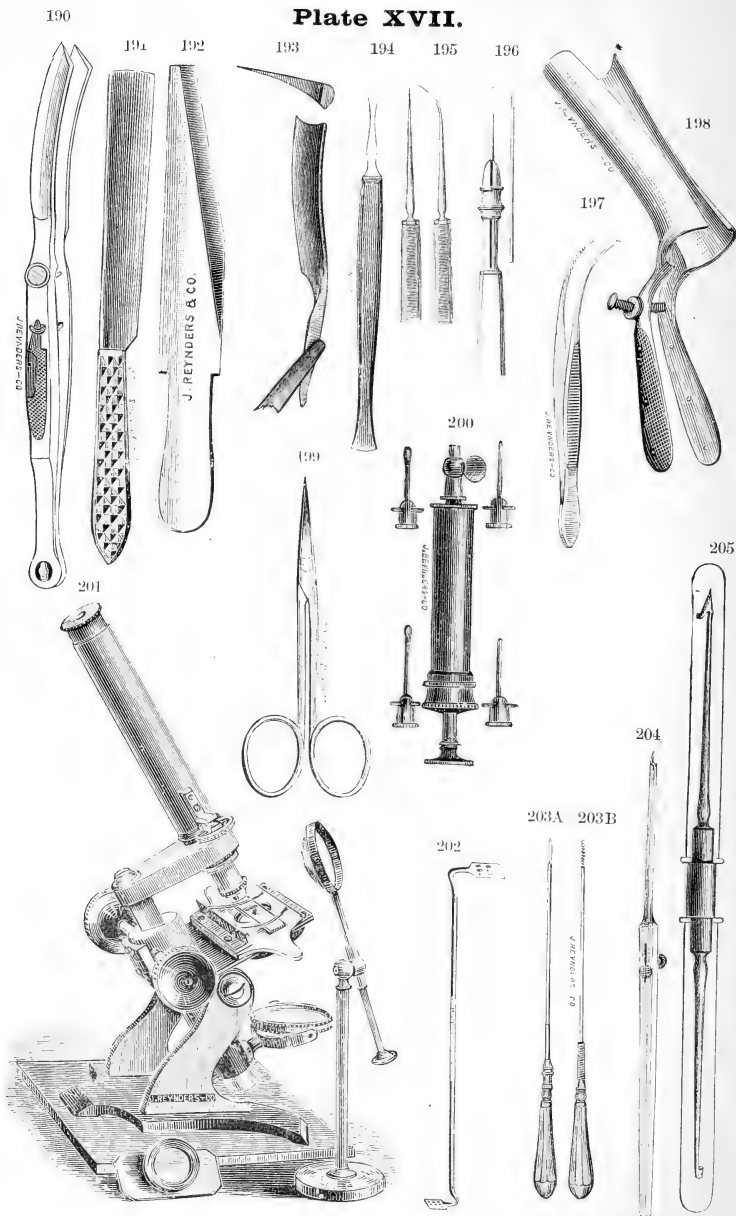
Gum Lancet, in ebony handle	1 00
" " in ivory handle.....	1 25
" " closing into plain and hard rubber handle	1 50
" " closing into hard rubber handle, with slide catch.....	2 50
Gun, Balling, Brass	3 00

H ank's Vulsella Forceps, with reversible blades. Plate 14. Fig. 165.	3 00
Hard Rubber Syringes, see "Syringes Hard Rubber."	
Hawksley's Stethoscope with metal tube	1 50
Herniatome. Plate 4. Fig. 38. Length, 10 inches, \$8 00; length, 18 inches	12 00
Hobbles	25 00

Our hobbles are of the latest and most practical style; by the withdrawal of a small bolt, they drop off and the horse instantly released.

Side Line, consisting of a wide band and rope, made of the best rope material; strongly woven and twisted in one piece. Used sometimes in connection with the hobbles	7 00
Hock Seaton Needle. In sliding handle	3 75
Holder for Caustic, all hard rubber, of three lengths. \$0 50; \$0 65 and	0 75
" " " hard rubber case, silver burner. Plate 7. Fig. 62..	1 25
" " " " " " platinum burner. Plate 7. Fig. 62.	2 75
" " " aluminum case, platinum burner.....	5 00
" " " " " platinum self-closing burner. Plate 7. Fig. 68.....	8 50
" " " silver case and silver burner. 3-inch, \$1 40; 4-inch	2 00

Plate XVII.



Holder for Needles, Nyrop's. Plate 18. Fig. 212	\$ 5 00
" " " Reiner's. " " Fig. 215	4 00
" " " Russian. " " Fig. 214	4 00
" " " combined with wire or pin cutting forceps. Stimson's. Plate 18. Fig. 213	3 50
" " " small, see "Eye Instruments."	
Hollow Suppositories. Plate 22. Fig. 266. For description see page 59	Per dozen 1 00
Hoof Knives, see "Drawing Knives," "Knives" and "Sage Knives."	
Hoof Searching Forceps. Plate 15. Fig. 175	2 75*
Hoof Spreader, with screw key, French model. Plate 15. Fig. 179....	15 00
Horse Catheters, see "Catheters."	
Horse Measuring Standard, plain	6 00
" " " in walking stick	\$12 00 to 14 00
Horns for Drenching, tin. Plate 11. Fig. 125	1 00
" " " John Reynders & Co.'s. Plate 11. Fig. 124	2 00
<p>This has been devised with a view to obviate all difficulty in administering fluid medicine to horses and cattle. It consists of two compartments A and B; B communicating with the metal tube B and A with the soft rubber hose A. The vessel B is to hold the medicated fluid and luke warm water which may be filled in through C. The soft rubber hose A is introduced into one of the nostrils and the metal tube B into the mouth; the horn is then to be tilted upwards, when the water will enter the nostril, force the animal to swallow and take the medicine without difficulty.</p>	
House's Castrating Clamp. Plate 6. Fig. 60	10 00
House's Tooth Extracting, combined with tooth-cutting Forceps, one set of removable handles to both. Plate 10. Fig. 107.....	28 00
House's Tooth-Cutting Forceps. Plate 11. Fig. 113	6 50
" " " " Plate 11. Fig. 116	6 50
" " " " angular. Plate 11. Fig. 115	6 50
" " " " curved on flat. Plate 11. Fig. 114	6 50
House's Tooth File, in stiff handle. Plate 10. Fig. 101	3 00*
" " " handle to unscrew into two parts. Plate 10. Fig. 101.	4 00*
" " Files, separate for the above. Plate 10. Fig. 108	0 40*
" " File for front teeth...Plate 29. Fig. 333.....	1 00
House's Tooth Hook	2 00
Hurlburt's Dental Knife and Pick, heavy. Plate 11. Fig. 122	2 00
Hypodermic Syringe, glass barrel, covered with fenestrated metal protection, with one fine trocar and canula, one needle, one vial; in morocco case. Plate 15. Fig. 176.....	5 00
Hypodermic Syringe, the same, with hard rubber fittings	4 00
" " Dr. Finley's model, hard rubber barrel, with two needles, in morocco case	3 00

Injecting Pump, Reed's, best, in case.. Plate 30. Fig. 336..... 25 00

Injecting Syringes, of white metal. Plate 23. Figs. 274, 275 and 276.
24 oz. in box, 3 00; 36 oz. in box, \$4 00; 48 oz. in box 5 00

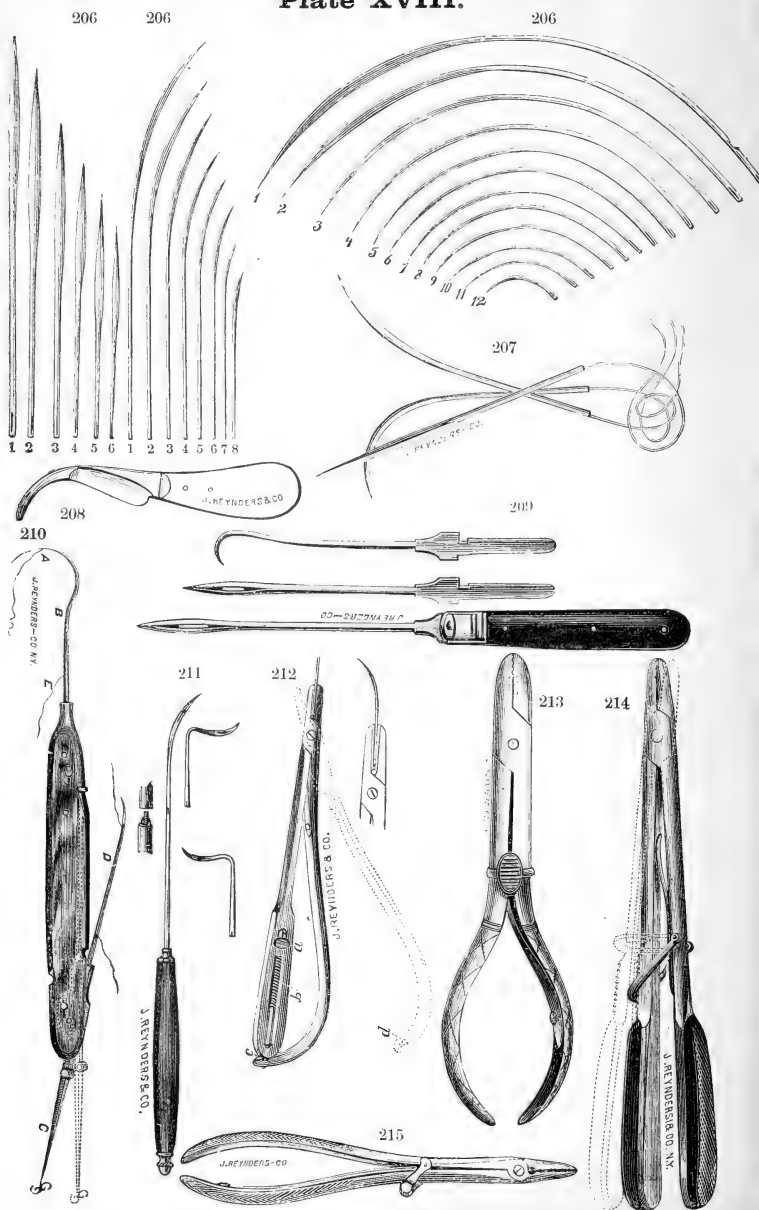
Injecting Syringe, of hard rubber, 24 oz. in box

" " of brass, finely polished and plated, 24 oz

Instrument Wallets, see "Wallets."

Irons for Firing, see "Cautery Irons" or "Firing Irons."

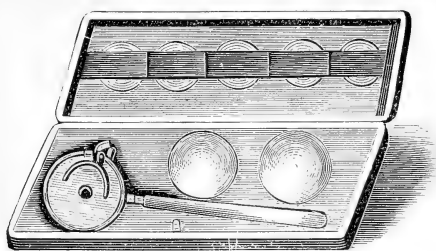
Plate XVIII.



K nigh's modification of Camman's Stethoscope	\$ 8 00
Knives, Castrating	2 00
" " French model	2 50
Knives, Drawing, single edged, 6 sizes. Pl. 9, Fig. 94. From No. 1 to 6 show natural sizes	Each 1 25
" " common	0 50*
" " single edged, in ebony handles, French model ..	Each 1 50
" " double edged, of two assorted widths of curve, in ebony handles, French model	1 75
" " small single-edged, closing into a handle ; for pocket.	1 50
" " Fleming's graduated, for cutting the groove, required by the Charlier Shoe	5 00
" " sets of, see "Drawing Knives" or Enumeration and Contents of Cases.	
Knives, Embryotomy, concealed in hard rubber handle. Plate 12. Fig. 132	4 50
" " " in ebony handle, French model. Plate 12. Fig. 134	4 50
" " " with ring. Plate 12. Fig. 136	1 75
Knives, manifold, for the pocket, containing: 2 fleams of assorted sizes, 1 single-edged drawing-knife, 1 bistoury and 1 probe	3 00
Knives, Neurotomy, straight edged, with upward and laterally curved projection. Right	2 00
" " straight edged, with upward and laterally curved projection. Left	2 00
" " curved, probe pointed delicate bistoury	2 00
" " Fleming's, with eye near the point. Fig 208	2 00
Knives, Nicking	1 50
Knives, Periostotomy	1 50
Knives, Pricking, with spring backs: 1 blade, \$2 50 ; 2 blades, \$4 00 ; 3 blades	4 50
Knives, Pocket, Veterinary Surgeon's, containing: 1 probe, 1 fleam, 1 drawing-knife and 1 straight edged scalpel. Plate 20. Fig. 232.	7 50
Knives, Sage, single-edged, right and left, in ebony handles, French model. Plate 29. Figs. 322 and 323	Each 1 50
" " double-edged and sharp pointed, in ebony handles, French model. Plate 29. Fig. 321	Each 1 75
Knives, Spaying, Farmer Miles', 4 bladed	7 00*
L actometer	\$0 75; best, 1 00
Lamp, Collin's, for illuminating the mouth, nasal, rectal and vaginal cavities. Plate 15. Fig. 185	\$7 00; in case 9 00
Lamp, glass, for alcohol	0 50
Lamp, Self-blowing, for heating Firing Irons. Plate 7. Fig. 70	7 50
" for singeing with alcohol. Plate 15. Fig. 177	2 50*
" " " " " Plate 15. Fig. 178	6 00*

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Plate XIX.

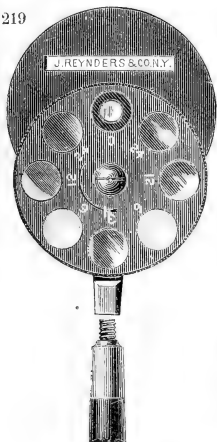


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218



219



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221



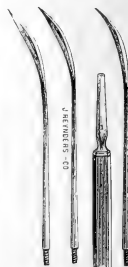
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223



224



225



D



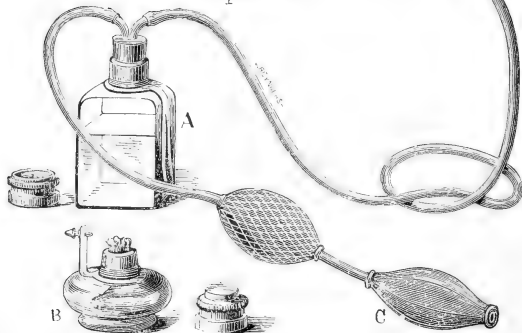
E



F



G



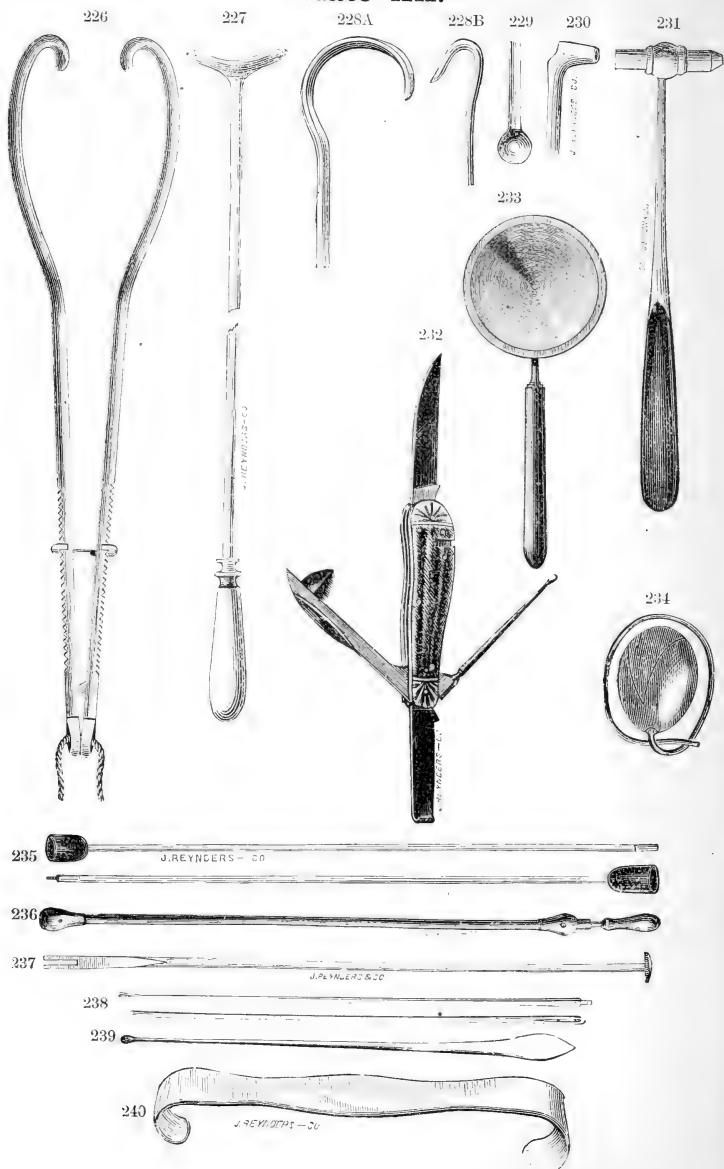
B



C

Lamp, Student's, brass.	Plate 15.	Fig. 182	\$4 00*
" " nickel-plated.			4 50*
Lancets, Abscess			1 00
Lancet, graduated and grooved needle, for inoculating cattle. Delaford's.			
In case			7 50
Lancet, for inoculating cattle.	Plate 15.	Fig. 181	0 75
Lancets, Thumb.	Plate 15.	Fig. 180	1 00
" " in brass handle, with set screw			2 25
Lancet with spring, plain, in case			2 50
" " " guarded, in case.	Plate 23.	Fig. 273	3 00
Leg Spreader, Farmer Miles'			8 00
Lenses, Magnifying, for pocket, one glass, folding into oval hard rubber case			
	$\frac{3}{4}$ inch diameter,	\$0 50*; 1 inch diameter,	0 75*
	1 $\frac{1}{2}$ inch diameter,	1 00*; 2 inch diameter,	1 50*
Lenses, Magnifying, for pocket, two glasses, folding into oval hard rubber case			
	$\frac{3}{4}$ inch diameter,	\$0 75*; 1 inch diameter,	1 00*
	1 $\frac{1}{2}$ inch diameter,	1 50*; 2 inch diameter,	2 50*
Lenses, Magnifying, for pocket, two glasses, folding into round hard rubber case. Plate 15. Fig. 183.	$\frac{3}{4}$ inch diameter,	\$0 75*; 1 inch diameter,	1 00*
	1 $\frac{1}{2}$ inch diameter,		1 25*
Lenses, Magnifying, for pocket, three glasses, folding into round hard rubber case. Plate 15. Fig. 184.			
	$\frac{3}{4}$ inch diameter,		1 00*
	1 inch diameter,	\$1 25; 1 $\frac{1}{2}$ inch diameter,	1 50*
Liautard's, Prof. A., Compact Pocket Case, see "Enumeration and Contents of Cases."			
Liautard's, Prof. A., Instrument Case and Medicine Chest combined, see "Enumeration and Contents of Cases."			
Liautard's, Prof. A., Set of Hoof Instruments, see "Enumeration and Contents of Cases."			
Liautard's, Prof. A., Tracheotomy Tube			15 00
Liautard's, Prof. A., Tooth Cutting Forceps, extra large and strong, one jaw hooked to prevent slipping; with closing screw and crank handle			30 00
Liebreich's Ophthalmoscope, with plain or elongating handle.			
Fig 216			5 00
Ligature Silk, ordinary, of two sizes.		per skein	0 05
" " braided, warranted not to kink or curl during use; of nine sizes		per board	0 35
" " the same, four assorted sizes, on a board		per board	0 75
" " carbolized, four sizes.		per board	0 45
" " closely twisted, four sizes.		per roll	0 35
Ligature Catgut, specially prepared for this purpose, four sizes, must be drawn through warm water before using to make it pliable ; per roll			0 25
Ligature Catgut, carbolized, in bottles		per bottle	0 75
Ligature Wire, of pure silver	No. 31 (finest), \$0 20;	No. 30,	0 20
	No. 29	0 25; No. 28,	0 30
	No. 27	0 35; No. 26,	0 40
	No. 25	0 45; No. 24,	0 50

Plate XX.



Ligature Wire, of soft metal, two sizes.....	per coil \$0 35 and \$ 0 45
Litmus Paper, blue and red, per sheet.....	0 10
Loring's Ophthalmoscope. Plate 19. Fig. 219.....	9 00

Maisonneuve's Ecrasseur, curved. Plate 12. Fig. 129.....	20 00
“ “ with removable straight and curved attachments, two assorted chains and four strengths of wire rope.....	36 00
Magnifying Lenses for Pocket; see “Lenses.”	
Mane Comb	0 20*
Mane Drag, for thinning out the hair of mane. Plate 9. Fig. 91.....	1 50*
Manifold Knife, for the pocket, containing two fleams of assorted sizes, one single-edged drawing-knife, one bistoury and one probe.....	3 00
Mare Catheter, elastic	1 25
“ “ metal	2 50
Marine Lint, the best antiseptic, expressly prepared for surgical purposes	0 75
Measuring Tapes of linen, bearing French measurements on the one and English measurements on the other side. With spring and stop, in nickel plated cases. Plate 15. Fig. 186. 3 feet \$0 50; 5 feet \$0 60; 6 feet	0 70
Measuring Tapes of steel, $\frac{1}{4}$ inch wide, bearing French measurements on the one and English measurements on the other side. With spring and stop, in nickel plated cases. Plate 15. Fig. 187. 3 feet \$1 50*; 4 feet \$1 75*; 5 feet \$2 00*; 6 feet \$2 25*; 8 feet \$2 50*; 12 feet \$3 75*; 15 feet	4 00*
Measuring Standard, plain. For horses	6 00
“ “ in walking stick. Plate 30. Fig. 341...\$12 00 to	14 00
Medicine Chests, see “Enumeration and Contents of Cases.”	
Metal Syringes, see “Syringes, Metal.”	
Microscopes, Zentmayer's American Student Stand, with 1 eye-piece (A or B); $\frac{8}{10}$ objective, 24°; $\frac{1}{3}$ objective, 75°; and walnut case, with lock and handle. Plate 16. Fig. 189.....	38 00*
With 1 eye-piece, and walnut case with lock and handle	22 00*

This instrument was designed and constructed with the view of enabling students to obtain an instrument combining the essential features of a first-class stand, superior optical qualities and extremely low cost.

The instrument is of brass, with the exception of the base, which is of cast-iron, neatly japanned. The base is the same shape as that of the Histological Stand, being of one piece and very rigid, to which the bell-metal bar is attached by a joint, allowing the use of the instrument at any angle of inclination; perpendicular and horizontal positions being indicated by stops.

The coarse adjustment for focus is accomplished by sliding the body-tube in a cloth-lined outside tube, which give an exceedingly smooth and delicate movement.

The fine adjustment is of the same style as that of the American Centennial Stand. A concealed lever is acted upon by a micrometer screw, and moves the entire body, which is fitted to the grooved bar, giving steady and delicate movement.

The plane and concave mirrors are hung in a plane with the object, and may be swung over the stage for illuminating opaque objects (instead of the bull's-eye condenser), having the object as the centre.

The stage is broad and firm, is only three (3) inches from the table, and is provided with delicate spring-clips, which may be removed if desired.

The diaphragm is circular in form, with a series of different size apertures, and is let into the stage from above; it may also be removed.

Microscopes, Zentmayer's American Histological Stand, with following accessories: 1 eye-piece (A or B); $\frac{8}{16}$-inch objective, 24° angular aperture; $\frac{1}{2}$-inch objective, 75° angular aperture (which easily resolves P. Angulatum), and neat walnut case, with lock and handle	\$50 00*
With same accessories, but with addition of rack and pinion, instead of sliding tube for coarse adjustment. Plate 16. Fig. 188	58 00*
Same, but with binocular attachment and 1 pair of eye-pieces	80 00*
With sliding tube coarse adjustment, 1 eye-piece and walnut case	32 00*
With rack and pinion coarse adjustment, 1 eye-piece and walnut case. . .	40 00*
Binocular, with 1 pair of eye-pieces and walnut case	62 00*

The fact that microscopical investigations have become obligatory in many of our Universities and Colleges, has necessitated the construction of an instrument combining the facilities of a first-class Stand, superior optical qualities and moderate cost. These necessary requirements were held in view, and, we believe, have been fulfilled in the above-named Stand.

The entire instrument is made of brass. The base and uprights are one piece, of a peculiar shape, of great rigidity, to which the bell-metal bar is attached by a joint, allowing the use of the instrument in any angle of inclination; perpendicular and horizontal positions are indicated by stops. The coarse adjustment is accomplished by a sliding tube, or by rack and pinion; the tube is five and one-half inches long, capable of elongation to the standard length.

The fine adjustment is of the same style as the one of the American Centennial Stand. A concealed lever is acted upon by a micrometer screw and moves the entire body, which is fitted to the grooved bar, giving a steady and delicate movement. The arrangement of the swinging sub-stage and mirrors is the same as in the United States Army Hospital Stand.

The removable sub-stage carries the diaphragms, which can be shifted up close to the object.

The stage is a modification of the glass stage, and consists of a glass bar kept down by two spring clips against which the object rests. By this method the object may be moved in the latitude, and the longitudinal movement is accomplished by hand. The spring clips may be used independently for holding anything in a fixed position, by simply placing them in the extra holes provided for that purpose. The stage is only three (3) inches from the table when in a horizontal position.

ACCESSORIES FOR HISTOLOGICAL STAND:

Extra eye-pieces	5 00*
Polarizer complete with 1 Selenite	15 00*
Selenites	1 00*
Neutral Tint Camera	3 00*
Stage Micrometer, 100-1000	1 00*
Eye-piece Micrometer (disk)	2 00*
Hemispherical Spot Lens	4 00*
Adapter for using objective as Achromatic Condenser	1 00*
Stage Forceps	1 75*
Animalecule Cage	2 00*
Double Nose-piece	6 00*
Glass Sliding Stage, with spring and ivory-pointed screw, complete . . .	4 50*
Rotating Stage-plate, with clips	2 00*
Woodward's Prism, unmounted	1*50*
Woodward's Prism, mounted	4 00*
Microscope, Educational, of English manufacture. Plate 17. Fig. 201.	40 00*

An admirable instrument, giving a flat though small field, great magnifying powers, clear definition, and is quite achromatic, *i. e.*, without those fringes of rainbow coloring which are always seen surrounding the objects in inferior microscopes.

It is furnished with one eye piece and a series of three object glasses, namely: the inch, half inch and quarter inch, so made that in order to obtain the highest power, all that is needed is to employ all the three, which screw into each other; two giving a less power, and one the least of all. The convenience of this arrangement will be readily understood.

Objectives of any manufacturer can be screwed into the tube of the instrument, as the latter contains the thread of the society screw.

The body of the instrument turns on two pivots so as to suit the position of the head, coarse and fine screws permit quick or slow moving of the tube to and from the object.

For conveniently moving the object is provided a sliding stage, with a revolving diaphragm secured under the same.

A dissecting forceps, animalcule cage, or life box, and condenser, accompany this instrument. All fitting in a neat mahogany case with handle on its top.

A drawer fitted with racks for holding microscopic objects is also contained in the case.

Microscope Objectives, of Mr. Wm. Wale's celebrated manufacture.

PHYSICIAN'S SERIES.

1½ inches, 20 degrees angle of aperture	\$15 00*
¾ inch, 30 " " "	15 00*
½ inch, 95 " " "	20 00*
⅓ inch, 135 " " " immersion	20 00*

ECONOMIC SERIES.

3 inches, 6 degrees angle of aperture	\$7 00*
1½ " 15 " " "	6 00*
¾ inch, 20 " " "	6 00*
½ " 40 " " "	10 00*
⅓ " 75 " " "	12 00*
⅓ " 120 " " " immersion	20 00*

MICROSCOPIC INSTRUMENTS.

Microscopic Bistouries of various shapes	each	0 75*
Microscopic Forceps, very delicate. Pl. 17. Fig. 197. Straight, \$1 25; curved,		1 25
Microscopic Harpoon and Punch combined, the former for removing from living subjects small pieces of muscle fibre; the latter for removing small pieces of skin, for microscopical examinations. Pl. 17. Fig. 205.		3 00*
Microscopic Harpoon with Slide, for removing from living subjects small pieces of muscle fibre for microscopical examinations. Pl. 17. Fig. 203A		3 50
Microscopic Instrument with Spiral Attachment, for removing from living subjects small pieces of muscle fibre, for microscopical examinations. Plate 17. Fig. 203 B.		3 00*
Microscopic Needle Holder. Plate 17. Fig. 196.		1 25
Microscopic Needles in Handles, best, straight or curved. Pl. 17. Fig. 195.		
	each	0 75
" " straight, in plain handles	each	0 18*
Microscopic Razor, ground flat on one side and hollow on the other.		
Plate 17. Fig. 193		1 50*
" " fine, with slide catch.		4 50
Microscopic Scalpels, three assorted sizes.	each	0 75
Microscopic Section Knife, in morocco case. Plate 17. Fig. 191.		3 50*
" " " Valentine's. Plate 17. Fig. 190.		8 00
" " " Vincent's. Plate 17. Fig. 192.		3 00
Microscopic Section Lifter, Satterthwaite's. Plate 17. Fig. 202.		1 00

Microscopic Spear-pointed Knife. Plate 17. Fig. 194.....	\$ 0 75
Microscopic Scissors, straight. Plate 17. Fig. 199	1 50
“ “ curved on flat	1 75
“ “ “ angular.....	1 75
Microscopic Syringe, brass, with four canulas of assorted sizes and stop cock, in wooden case. Plate 17. Fig. 200.....	8 00*
Microscopic Trocar, Duchenne's, for removing from living subjects small pieces of muscle fibre for microscopical examinations. Plate 17. Fig. 204	3 50*

MICROSCOPIC SLIDE MOUNTING MATERIALS AND APPARATUS OF EVERY DESCRIPTION.

Miles, T. C. (Farmer Miles') Caponizing Instruments, consisting of Knife, Spreader and Forceps, in neat case with directions.....	7 00*
Miles', T. C., Castrating Ecrasseur. Plate 12. Fig. 130	20 00
Miles', T. C., Leg Spreader.....	8 00
Miles', T. C., Spaying Knife	7 00*
Miles', T. C., Spaying Scissors	8 00
Miles', T. C., Spaying Sound. Plate 14. Fig. 164	0 75*
Miles', T. C., Spaying Needle.....	1 25
Milking Tubes. Plate 30. Fig. 338.....each	1 10
Möller's Tooth Cutting Forceps. Plate 11. Fig. 111	32 00
“ “ “ “ with plain closing screw and crank handle.....	30 00
Mouth Speculum, French model. Plate 4. Fig. 30.....	17 50
Mouth Speculum or Speculum Oris, E. A. A. Grange's. Plate 23. Fig. 277. “ “ Varnell's. Plate 4. Fig. 29.....	9 00
Myer's, Dr. J. C., Saw. For description see "Saws.".....	3 50

Nasal Septum Punch, for cutting out a circular piece of cartilage prior to the insertion of an ordinary Bull ring	7 00
Needles, straight, sizes 1, 2 and 3; half curved, sizes 1, 2 and 3; full curved, 1, 2, 3 and 4. Plate 18. Figs. 206...Each, \$0 15; per doz.	1 50
Needles, straight, size 4, 5 and 6; half curved, sizes 4, 5, 6, 7 and 8; full curved, sizes 5, 6, 7, 8, 9, 10, 11 and 12. Plate 18. Figs. 206. Each \$0 10; per doz.	1 00
“ extra heavy, straight, half curved and full curved.....each	0 20
“ into which soft metal wire is to be screwed. Plate 18. Fig. 207. each	0 50
Soft metal wire for the same.....per coil, \$0 35 and	0 45
Needles, into which pure silver wire is to be screwed	0 50
“ Pure silver wire for the same, No. 26.....per coil	0 40
Needles, hollow, for fine pure silver wire; one each straight and curved, and one wire twister in shell handle, with slide catches. Cleborne's, Plate 18. Fig. 210.....	7 00
Needles, Copeman's, set of three. Plate 19. Fig. 223.....	3 00
Needles, Gerlach's, two of assorted sizes and one sharp hook (tenaculum) fitting into one spring catch handle. Plate 18. Fig. 209.....	4 00

Needle, new model, set of three. Plate 18. Fig. 211.....	\$3 00
“ in handle..... each	1 50
“ in handle, Ashton's. Plate 19. Fig. 221.....	1 50
Needle, for Vaginal Sutures, wide, Sauberg's. Plate 25. Fig. 304.....	1 25
“ “ “ “ narrow, Sauberg's.....	1 25
“ “ “ “ with removable point, Dietrich's.....	2 00
Needles for introducing Seatons, plain, sharp-pointed; 6 inches in length,	0 75
9 inches in length, \$1 00; 12 inches in length.....	1 75
Needles for introducing Seatons, blunt, probe pointed: 9 inches in length,	1 25
12 inches in length.....	1 50
“ “ “ “ in protecting horn handle. Plate 22.	
Fig. 257.....	1 75
“ “ “ “ in two parts to screw together Plate 22.	
Fig. 255.....	2 75
“ “ “ “ in three parts to screw together. Plate 22.	
Fig. 254.....	3 50
“ “ “ “ S form and guttered, in two parts to	
screw together. Plate 22. Fig. 256.....	2 75
Needles for introducing Seatons into the Frog, plain.....	1 25
“ “ “ “ “ “ “ “ roughened. Plate 14.	
Fig. 170.....	1 75
“ “ “ “ “ “ “ “ Sewell's. Plate 14. Fig.	
169.....	3 75
Needles for introducing Seatons into Dogs, plain.....	1 00
“ “ “ “ “ “ “ “ in hard rubber handle, with	
catch. Plate 2. Fig. 21.....	3 00
Needles, with sliding handle, for introducing Seatons into the Hock....	3 75
Needle Holder, Nyrop's. Plate 18. Fig. 212.....	5 00
“ “ Reimer's. Plate 18. Fig. 215.....	4 00
“ “ Russian. Plate 18. Fig. 214.....	4 00
Needle Holder and Wire or Pin Cutting Forceps combined, Stimson's.	
Plate 18. Fig. 213.....	3 50
Needle Holders, small, see “Eye Instruments.”	
Neurotomy Band.....	2 00
Neurotomy Bistoury, delicate, curved, probe pointed.....	2 00
Neurotomy Knife, straight edged, with an upward and laterally curved	
projection. Right.....	2 00
“ “ the same. Left.....	2 00
“ “ with eye near the point, Fleming's. Plate 18.	
Fig. 208.....	2 00
Nose Elevator.....	1 00
Nose Speculum, two-bladed, with handles. Plate 17. Fig. 198.....	5 50
“ “ two-bladed, without handles.....	3 75
Nyrop's Needle holder. Plate 18. Fig. 212.....	5 00
O phthalmoscope, Liebreich's. With plain or elongating handle. Plate 19.	
Fig. 216.....	5 00
Ophthalmoscope, Loring's. Plate 19. Fig. 219.....	9 00
Ophthalmoscope, Nache's. Plate 19. Fig. 220.....	6 50

Paquelin's Thermo-Cautery. Complete, with two platinum cauterizers *D* and *E*, in case. Plate 19. Fig. 224\$45 00*

It is known that platinum and some other metals possess the property, when slightly heated, of becoming incandescent when brought in contact with a gaseous mixture of air and of certain hydrocarbon vapors, and of continuing in an incandescent state without flame as long as the mixture continues to be supplied. It is upon this property that Dr. Paquelin has based the construction of his novel and very admirable apparatus.

The thermo-cautery consists of three principal parts, namely: The chamber *D* or *E* in which the combustion takes place, the receptacle *A* for the volatile hydrocarbon, and the air blowing contrivance (set of double bulbs) *C*. The combustion chamber (*E* or *D*) is the cautery itself. The latter consists of a platinum shell of small volume and large surface, it is the cautery proper, becoming incandescent and is made of two forms to suit different requirements of application. Two tubes are attached to this, an inner one for leading the vapors into the platinum shell and an outer one for conducting off the products of combustion.

The receptacle *A* consists of a bottle, having fastened to its neck a contrivance for readily attaching the bottle, as is most convenient, to a button hole, button or pocket of the operator's clothing. This bottle is closed by a rubber stopper through which a tube having two outlets passes. Through one of the latter and by means of the set of double bulbs *C* is forced into the bottle: atmospheric air, which passes out through the other outlet mixed with the hydrocarbon and into the cautery *D* or *E*. A handle *G* made of non heat conducting material is attached between the cauteries *D* or *E* and the rubber conducting tubing. *F* is a tube that can be screwed between the cauteries *D* or *E* and the handle *G*, elongating the instrument for operating in cavities.

DIRECTIONS FOR USE.

The set of double bulbs *C*, are attached to the blow pipe fastened on to the alcohol lamp *B*, and the end bulb worked briskly whilst the cautery to be used (attached to the handle *G*, and tubing to the receptacle *A*), is held into the white part of the flame until the cautery has become slightly heated. Then remove the cautery from the flame and the set of double bulbs from the blow pipe and attach the latter to the inlet tube of the receptacle. Again work the end bulb briskly until the cautery has become incandescent and then operate. During the operation continue to work the end bulb with the left hand, sufficiently for retaining the cautery at a uniform degree of heat. The cautery when incandescent will remain so, as long as hydrocarbon is supplied by working the bulb.

The thermo-cautery is applicable in all operations where the use of cautery by fire is indicated. Its heat may be maintained indefinitely, and may be varied at the will of the operator, at any degree lower than that of white heat. It may be passed through the organic tissues and liquids, or even through cold water without losing its activity. It is easy of manipulation, perfectly safe in use, compact, portable, and free from the inconveniences of the older methods of cautery by fire. The hydrocarbons which supply it (keroseline or benzine) are everywhere easily obtained.

Parker's Bone Saw	4 50
Parturition Forceps or Artificial Hand, E. A. A. Grange's.	
Parturition Forceps, long, Günther's. Plate 20. Fig. 226.....	16 00
Parturition Forceps (short crotchet), Talish's	6 00
Parturition Pulleys (compound). Plate 19. Fig. 225	5 00
Parturition Repulsor. Plate 20. Fig. 227.....	3 00
Parturition Sling Carrier, straight. Plate 20. Fig. 229	3 00
“ “ “ curved. Plate 20. Fig. 230	3 00
Parturition Sharp Hook. Plate 20. Fig. 228 <i>B</i>	3 00
“ Blunt Hook. Plate 20. Fig. 228 <i>A</i>	3 00
Parturition Set; consisting of repulsor, with articulated prongs and oval ring handle, 39 inches long; one each sharp and blunt hooks screwing on to an extra oval ring handle.....	22 00
Plane, Charlier's. For shoeing à la Periplantaire	3 50
Planten, H. & Son's, capsules for horse balls. Plate 5. Fig. 49. For description see page 15.	
$\frac{1}{8}$ oz. capsules, in box....	0 50*
$\frac{1}{4}$ oz. capsules, in box....	0 50*
Ten $\frac{1}{2}$ oz. capsules, in box....	0 50*
Ten 1 oz. capsules, in box....	0 50*

Plate XXII.



Flexible Capsules filled with 5 min; Oil of male Fern for worms in dogs;

12 in box	\$0 25*
Plaster Spatulas, 5 inch.....	0 30
“ “ 8 inch.....	0 60
“ “ combined with trephining elevator. Plate 24. Fig. 294	0 75
Periostotomy Knife	1 50
Periostotomy Set, Spooner's. Containing 1 curved blunt pointed seton needle, 1 small probe pointed convex edged bistoury, 1 large probe pointed concave edged bistoury, 1 double edged knife and 3 needles; in case	10 00
Percussor, Flint's. Plate 20. Fig. 231.....	Plain \$1 00; Fine 1 75
Pessary, inflating, for mares and cows. Plate 20. Fig. 234.....	6 00
Pleximeter, Flint's. Plate 19. Fig. 222.....	0 25
Pneumatic Aspirators, see "Aspirators."	
Pins for Sutures, of assorted thicknesses. Per 100.....	0 40
“ “ “ with gold plated lance points, of 3 assorted lengths and thicknesses. Per dozen.....	0 25
Pin and wire cutting Forceps	2 50
“ “ “ “ “ combined with needle holder. Stimson's. Plate 18. Fig. 213.....	3 50
Pocket Cases, see "Enumeration and Contents of Cases."	
Pocket Knife, veterinary surgeon's. Containing: probe, fleam, drawing knife and straight edged scalpel. Plate 20. Fig. 232	7 50
Pocket Magnifiers, see "Magnifying Lenses."	
Polypus Forceps, straight.....	8 inches, \$2 50; 9 inches 3 00
“ “ curved, 8 inches. Plate 14. Fig. 172	3 00
“ “ straight, 10 inches, with ratchet catch. Plate 14. Fig. 173	3 50
Porte Mèche, for introducing lint into wounds. Plate 20. Fig. 237....	0 50
Porte Caustic, see "Caustic Holders" or "Holders for Caustic."	
Post Mortem Cases, see "Enumeration and Contents of Cases."	
Potain's Aspirator. For description see page 11. Plate 3. Fig. 23.	\$16 00 and 18 00
Power Clippers, see "Clippers."	
Pricking Knives, with spring backs, 1 blade \$2 50; 2 blades \$4 00; 3 blades	4 50
Probangs, to unscrew into two parts, of cane. Plate 20. Fig. 235.....	5 50
“ of celluloid. Plate 20. Fig. 235	6 00*
“ of whalebone. Plate 20. Fig. 235	9 00
“ leather covered, with stilet. Plate 20. Fig. 236.....	16 00
“ “ “ with whalebone stilet, separating into two parts	18 00
Protector of rubber for arm.....	3 00
Probes, long, plated and in two parts to screw together. Pl. 20. Fig. 238	1 25
Probe, long, of whalebone	\$0 75; lead 0 50
Probe, with myrtle leaf. Plate 20. Fig. 239.....	0 75
Pulleys (compound) for Parturition, complete with rope. Pl. 19. Fig. 225	5 00
Pump for Injecting, Reed's best, in case. Plate 30. Fig. 336	25 00

Quarter Crack Clamps , of small, medium and large sizes. Plate 21.	
Fig. 243. Per doz.	\$ 0 50
Quarter Crack Clamp Closing Forceps , for clamps of small and medium sizes. Plate 21. Fig. 242.	
“ “ “ “ “ for clamps of large size	6 50
“ “ “ “ “ with two sets of jaws for clamps of any size	12 50
Quarter Crack Clamp Firing Iron , for clamps of small size. Pl. 21. Fig. 244.	
“ “ “ “ “ for clamps of medium size	2 50
“ “ “ “ “ for clamps of large size	2 50
“ “ “ “ “ set of two, for clamps of either size ..	4 50
For description of these instruments for closing quarter or sand cracks see p. 65.	
Quittor Syringe , of hard rubber, with fine tube. $\frac{3}{8}$ oz. Pl. 24. Fig. 285	
“ “ “ “ “ $\frac{1}{2}$ oz.	0 75
“ “ “ “ “ 1 oz.	1 00
“ “ “ “ “ 3 oz.	1 25
“ “ “ brass nickel-plated, with three canulas of assorted sizes	4 50
R espiratory combined with elevator, for trephining. Plate 24. Fig. 293	
Reed's Injecting Pump, best, in case. Plate 30. Fig. 336.	25 00
Reflector for Illuminating Cavities. Plate 20. Fig. 233.	\$3 50 and 4 25
Reiner's Needle Holder. Plate 18. Fig. 215.	4 00
Retractors. Plate 20. Fig. 240.	per pair 1 50*
Retractors for Caponizing, on whalebone spring or elastic web.	1 50*
Reynders, John & Co.'s, Aspirator. Plate 3. Fig. 24. For description see page 11.	
Reynders, John & Co.'s Drenching Horn. Plate 11. Fig. 124. For description see page 25.	2 00
Reynders, John & Co.'s, modification of Camman's Stethoscope. Plate 24. Fig. 262.	
Reynders, John & Co.'s, Compact Stethoscope. Plate 22. Fig. 260.	2 50 2 75
The larger end piece can be unhinged and turned to one side for conveniently carrying the instrument in the pocket.	
Roughing Cogs , set of Fleming's, consisting of two dozen cogs, with two punches. Plate 29. Figs. 329, 330 and 331	
Rowling Scissors, plain	6 00 2 00
“ “ “ improved. Plate 21. Fig. 241.	3 50
Russian Needle Holder. Plate 18. Fig. 214.	4 00
S addle Bags, see "Enumeration and Contents of Cases."	
Sage Knives, single-edged, right and left, in ebony handles, French model. Plate 29. Figs. 322 and 323.	
“ “ double-edged and sharp-pointed, in ebony handles, French model. Plate 29. Fig. 321.	1 50 1 75
Sand Crack Clamps , of small, medium and large sizes. Pl. 21. Fig. 243	
per doz.	0 50

Sand Crack Clamp Closing Forceps, for clamps of small and medium sizes. Plate 21. Fig. 242..	\$ 6 50
“ “ “ “ “ for clamps of large size. Plate 21. Fig. 242	6 50
“ “ “ “ “ with two sets of jaws for clamps of any size	12 50
Sand Crack Clamp Firing Iron, for clamps of small size. Pl. 21. Fig. 244.	2 50
“ “ “ “ “ of medium size	2 50
“ “ “ “ “ of large size	2 50
“ “ “ “ Irons, set of two, for clamps of any size.....	4 50
For description of these instruments for closing sand or quarter crabs see p. 65.	
Sauberg's Needle for Vaginal Suture. Plate 25. Fig. 304.....	1 25
Saws, Bone. Plate 21. Fig. 245.....	5 00
Saws, Bone, Parker's	4 50
“ “ with movable back. Plate 21. Fig. 252	5 00
Saws, with movable back, small, four sizes	\$1 50 to 3 50
Saws, Chain. Plate 5. Fig. 50	10 00
“ “ Carrier, without chain. Plate 5. Fig. 52.....	5 50
“ “ extra strong, for dental purposes. Plate 5. Fig. 51.....	12 50
Saw, for separating horses' teeth, plain. Plate 11. Fig. 120	1 50
“ “ “ “ “ fine ferruled. Plate 11. Fig. 121	1 75
“ “ “ “ “ French model. Plate 11. Fig. 118..	3 50
“ “ “ “ “ bow. Plate 11. Fig. 119	6 00
Saw, J. C. Myer's, fastening with screw on a handle of usual length, as also on a rod 30 inches long; for separating the bones of the pelvis of foetus in cases of dystocia dependent upon posterior presentation as also in any other presentations where the division of bony structure of the foetus is indicated	3 50
Directions for its use, see Dr. Myer's article in <i>American Veterinary Review</i> , March 1879.	
Scalpels, convex edged, four sizes, ebony handles. Plate 21. Fig. 247. each	0 60
“ “ “ “ “ ivory handles.....	0 75
“ “ “ “ “ large size, with ebony sides. Plate 21. Fig. 249.	1 50
“ “ “ “ “ with ivory sides. Plate 21. Fig. 249..	1 75
“ “ “ “ “ extra large size, with plain ebony handle	1 00
“ “ “ “ “ with ferruled ebony handle. Plate 21. Fig. 246.	1 50
“ “ “ “ “ convex edged, closing into plain hard rubber handle	1 50
“ “ “ “ “ straight edged, “ “ “ “ “ “ “	1 50
“ “ “ “ “ center pointed, “ “ “ “ “ “ “ Plate 21. Fig. 248..	1 50
“ “ “ “ “ convex edged, “ “ “ “ “ “ “ with slide catch. Plate 21. Fig. 250	2 50
Scalpels, straight edged, closing into hard rubber handle, with slide catch. Plate 21. Fig. 251.....	2 50
“ “ “ “ “ center pointed, closing into hard rubber handle, with slide catch	2 50
“ “ “ “ “ convex and straight edged, closing into one plain h. r. handle	2 00
The same, closing into one hard rubber handle, with slide catches....	3 50

Plate XXIII.

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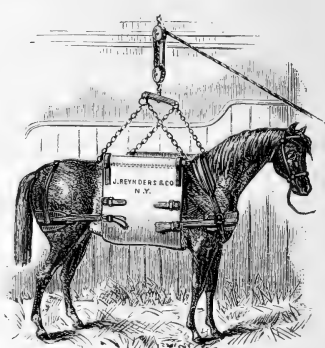
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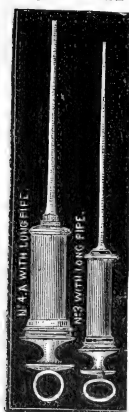


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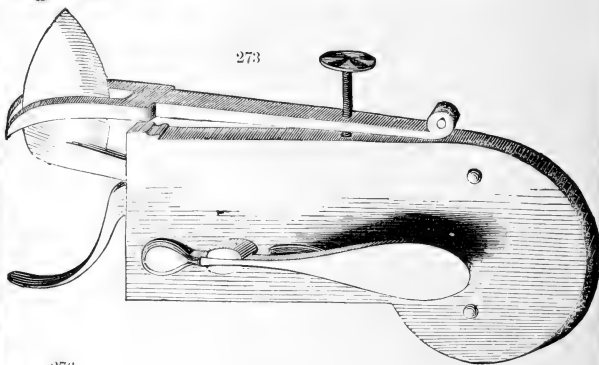


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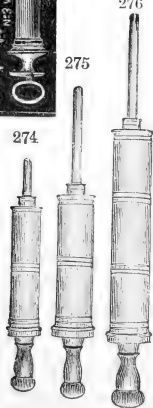
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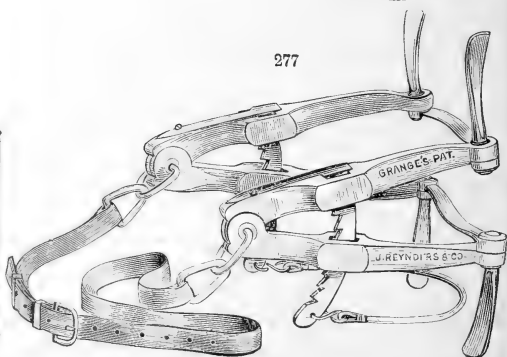
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Scalpels, convex edged and center pointed, closing into one plain hard rubber handle	\$ 2 00
The same, closing into one hard rubber handle, with slide catches. Plate 21. Fig. 253	3 50
Scalpels, straight edged and center pointed, closing into one plain hard handle	2 00
The same, closing into one hard rubber handle, with slide catches....	3 50
Scissors, straight. Plate 22. Fig. 259.....5 inch	\$1 00; 6½ inch 1 20
" curved on the flat. Fig. 268.....5 inch	\$1 50; 6½ inch 1 75
" curved angular. Fig. 267	5 inch 1 50
" straight.....	7¾ inch 2 50
" curved on the flat. Fig. 269	7¾ inch 2 50
" curved angular	7¾ inch 2 50
" Rowelling. Plain	2 00
" " Improved. Plate 21. Fig. 241	3 50
" Spaying. Farmer Miles'	8 00
Searching Forceps, for hoofs. Plate 15. Fig. 175.....	2 75*
Seaton Needles, plain, 6, 9 and 12 inches in length...\$0 75; \$1 00 and	1 25
" " blunt, probe pointed	\$1 00 and 1 50
" " in protecting horn handle. Plate 22. Fig. 257	1 75
" " separating into two parts. Plate 22. Fig. 255	2 75
" " separating into three parts. Plate 22. Fig. 254.....	3 50
" " S form, grooved, separating into two parts. Plate 22. Fig. 256	2 75
" " Hock, with sliding handle	3 75
" " sharp and blunt pointed, sliding over each other, length 19 inches. With handle.....	7 00
" " Frog, plain	1 25
" " " roughened. Plate 14. Fig. 170	1 75
" " " Sewell's. Plate 14. Fig. 169	3 75
Self-blowing Lamp, for heating firing irons. Plate 7. Fig. 70	7 50
Serrefines, steel, nickelplated. Plate 22. Fig. 258. Each...\$0 50 and	0 75
Sewell's Frog Seaton Needle. Plate 14. Fig. 169	3 75
Shears, Clipping, see "Clipping Shears."	
Shears, Docking. Plate 12. Fig. 126	best 11 50
Sheep Trocar, with three oval canulas	2 75
" " with one round canula, having ring handles and cap.	3 50
Shoe, Charlier's. (Pattern for the Farrier).....	1 00
Side Line, consisting of a wide band and rope, made of the best rope material; strongly woven and twisted in one piece. Used sometimes in connection with hobbles.....	7 00
Silk for Ligatures and Sutures. Ordinary, of two sizes. Per skein	0 05
" " " " " Braided, warranted not to kink or curl during use; of nine sizes. Per board,	0 35
Silk for Ligatures and Sutures. Braided, warranted not to kink or curl during use; four assorted sizes on a board. Per board.....	0 75
Silk for Ligatures and Sutures. Carbolyzed, four sizes. Per board	0 45
" " " " " Closely twisted, four sizes. Per roll.	0 35
Singeing Apparatus, for gas, plain, without tubing. Plate 2. Fig. 10..	4 00*

Singeing Apparatus, for gas, with ball and socket-joint, without tubing.	
Plate 2. Fig. 9.....	\$ 4 50*
Singeing Lamp, for alcohol. Plate 15. Fig. 177.....	2 50*
" " " " Plate 15. Fig. 178.....	6 00*
Slings Suspending, for small and medium horses. Without staple, pulleys and rope.....	18 00*
Slings, Suspending, for any sized horse. Plate 23. Fig. 270. Without staple, pulleys and rope.....	20 00*
Screw staple, pulleys and rope for the above. Per set.....	6 75*
Smith's Wire Ecrasseurs, straight or curved. Pl. 12. Figs. 131 & 133. Each	6 00
Spatula for Spreading Plaster, 5 inch.....	0 30
" " " " 8 inch.....	0 60
Spatula Combined with Trephining Elevator. Plate 24. Fig. 294.....	0 75
Spaying Ecrasseur, with chain. French model, as used by Dr. Liautard.	22 00
Spaying Knife, 4-bladed. Farmer Miles'.....	7 00*
Spaying Needle. Farmer Miles'.....	1 25
Spaying Scissors. Farmer Miles'.....	8 00
Spaying Sound. Farmer Miles'. Plate 14. Fig. 164.....	0 75*
Speculum, Eye. Plain. Plate 14. Fig. 166.....	1 50
" " Improved. Dr. W. O. Moore's ..	2 00
Speculum, Mouth. Varnell's. Plate 4. Fig. 29.....	9 00
" " French model. Plate 4. Fig. 30.....	17 50
Speculum, Nasal, with handles. Plate 17. Fig. 198.....	5 50
" " without handles.....	3 75
Speculum, Oris. E. A. A. Grange's. Plate 23. Fig. 277.	17 00*
Speculum, Vaginal. L. E. Wheat's. Plate 25. Fig. 305.....	25 00
Spreader, for hoofs, with screw key. French model. Plate 15. Fig. 179.	15 00
" for legs, Farmer Miles'.....	8 00
Spring Lancet, plain. In case.....	2 50
" " guarded. In case. Plate 23. Fig. 273.....	3 00
Standard, plain, for measuring height of animals.....	6 00
" concealed in walking cane.....	\$12 00 to 14 00
Stallion Truss, to prevent injury whilst trotting.....	6 00*
" " improved, to prevent injury whilst trotting.....	8 00*
Steele's Elastic Probe. Plate 12. Fig. 127.....	2 25
Stethoscope, Camman's, plain. Plate 22. Fig. 261.....	4 50
" " with plain metal spring.....	5 00
" " with metal spring and graduating screw.....	6 00
" " Knight's modification.....	8 00
" " J. Reynders & Co.'s modification. Pl. 22. Fig. 262	2 50
Stethoscope, Hawksley's, with metal tube.....	1 50
" of hard rubber, plain. Plate 22. Fig. 263.....	1 50
" " " to unscrew.....	2 00
The smaller end piece can be telescoped into the larger one and secured in the latter by a few turns of the screw.	
Stethoscope, of hard rubber, with hammer and pleximeter. Pl. 22. Fig. 264	3 50
" hard rubber fittings, with elastic tube. Plate 22. Fig. 265	1 25
" J. Reynders & Co.'s Compact. Plate 22. Fig. 260.....	2 75
The larger end piece can be unhinged and turned to one side for conveniently carrying the instrument in the pocket.	

Stimson, D. M. Needle Holder, combined, with pin and wire cutting forceps. Plate 18. Fig. 213.	\$ 3 50
Stomach Tube, elastic.	7 00
Suppositories, hollow. Plate 22. Fig. 236. Per dozen.	1 00

Hollow suppositories are being welcomed as a great boon to man's most faithful and patient servant—the horse. Most of the diseases from which he suffers are soonest relieved by rectal medication. It only requires a minute to fill a No. 6 hollow suppository and insert it; and the life of the animal often depends on prompt action. Not only should every veterinary surgeon keep a supply of these hollow suppositories on hand ready for immediate use, but every person owning a horse should do so. The sickness to which the horse is most liable is colic. One of these suppositories filled with wet tobacco and inserted will generally cure the sufferer in a few minutes. The same treatment will destroy "pin worms" in horses.

Suture Catgut, see "Catgut Ligature."

Suture Needles, see "Needles."

Suture Pins, see "Pins."

Suture Silk, see "Ligature Silk" or "Silk for Ligatures and Sutures."

Suture Wire, see "Ligature Wire" or "Wire for Ligatures and Sutures."

Student's Lamp, brass. Plate 15. Fig. 182.	4 00*
" " " nickelplated.	4 50*

Stuffing Boots, see "Boots, Stuffing" on page 13.

Syringe, Anatomical, see "Anatomical Syringe" page 7.

Syringes, hard rubber, with short thin nozzle. $\frac{3}{8}$ oz. Plate 24. Fig. 285	1 00
" " " with long straight pipe. 1 oz. Plate 23. Fig. 272	1 25
" " " " " " " 2 oz. Plate 23. Fig. 271	2 75
" " " with straight pipe, piston rod with ring. $\frac{1}{2}$ oz. Plate 24. Fig. 283	1 00
" " " " " " " $\frac{3}{8}$ oz.	0 75
" " " " " " " $\frac{1}{4}$ oz. Plate 24. Fig. 282	1 00
" " " " " " " 1 oz. Plate 24. Fig. 281	1 25
" " " " " " " 3 oz. Plate 24. Fig. 280	1 50
" " " " " " " 6 oz. Plate 24. Fig. 279	2 00
" " " " " " " 12 oz. Plate 24. Fig. 278	2 50
" " " " " " " in wood box. 24 oz.	7 50

Syringes, brass, nickelplated, in wood box. 24 oz. 12 50

Syringes, white metal, in wood box. 24 oz. Plate 23. Fig. 274 3 00

 " " " " " " 36 oz. Plate 23. Fig. 275 4 00

 " " " " " " 48 oz. Plate 23. Fig. 276 5 00

Syringes, Hypodermic. Glass barrel, covered with fenestrated metal protection, one fine trocar and canula, one needle, one vial, in morocco case. Plate 15. Fig. 176 5 00

Syringes, Hypodermic. The same, with hard rubber fittings 4 00

 " " Dr. Finley's model, hard rubber barrel, with two needles, in morocco case 3 00

Syringes, Quittor, see "Quittor Syringes."

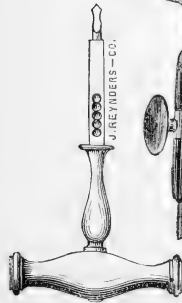
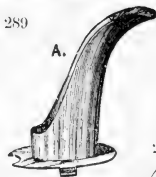
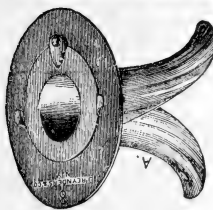
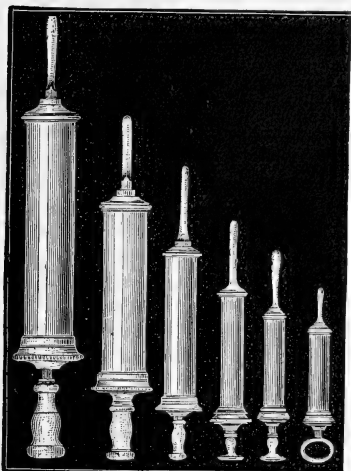
Talish's Short Crotchet, or Parturition forceps 6 00

Tapes, Measuring, see "Measuring Tapes."

Taxidermists' Instruments of every description. Price list mailed free upon application.

Plate XXIV.

278 279 280 281 282 283



Tenaculum, in ebony handle. Fig. 287	\$0 60
“ “ ivory handle. Fig. 287	0 75
“ extra large, in plain ebony handle.	1 00
“ “ “ in ferruled ebony handle. Fig. 286	1 25
“ closing into plain hard rubber handle. Fig. 288	1 25
“ “ “ “ “ “ with slide catch	2 25
Tenaculum and Aneurism Needle, closing into one plain hard rubber handle.	1 75
Tenaculum and Aneurism Needle, closing into one hard rubber handle, with slide catches	3 25
Test Tubes	Each \$0.05; per doz. 0 50
“ “ Stands. Each	0 75
Thermometers, Clinical, Self-registering, plain. In hard rubber cases. Fig. 297	2 00
Thermometers, Clinical, Self-registering, with contraction near the bulb to prevent the entrance of the registering index. In hard rubber cases. Fig. 298.	2 50
Thermometers, Clinical, Self-registering, with spiral twist near the bulb, warranted to prevent the entrance of the registering index. In hard rubber cases. Fig. 299	3 50
Thermometers, Clinical, Self-registering, with contraction near the bulb to prevent the entrance of the registering index; lens front magnifying the index. In hard rubber cases. Fig. 296.	3 00*
Thermometers, Clinical, Self-registering, with upward curved bulb. In morocco case. Fig. 295	3 50
Metallic nickelplated cases for any of the above mentioned Thermometers. Additional	0 50*
Morocco velvet lined cases for any of the above mentioned Thermometers. Additional	0 75*

[From *Ganot's Elementary Treatise on Physics*," Article 294.]

"Thermometers, even when constructed with the greatest care, are subject to a source of error which must be taken into account: this is, that in the course of time the zero tends to rise, the displacement sometimes extending to as much as two degrees; so that when the thermometer is immersed in melting ice, it no longer sinks to zero. This is generally attributed to a diminution of the volume of the bulb and also of the stem, occasioned by the pressure of the atmosphere."

Statistics show that several thousand thermometers of refined construction, and graduated on the stem to 0°, 2 Fahrenheit or thereabouts, are annually procured by the medical practitioners of our country for physiological researches and daily practice. The majority of these thermometers are newly made (within six months), and their verification depends on inferior (from the scientific standpoint) thermometers in the hands of individual makers. It is needless to say that the readings of such thermometers have little value in indicating the true temperature of a patient, or affording data in cases which the physician wishes to describe in print. An analysis of the results of sixty-eight thermometers of this description, verified by the Thermometric Bureau of the Winchester Observatory, in June, 1880, will show how great this error may come to be: one-fifth had errors less than 0.1°; one fifth had errors less than 0.4°, but more than 0.2°; two-fifths had errors less than 0.7°, but more than 0.4°; one-fifth had errors less than 1.0°, but more than 0.7°; and occasionally a thermometer was found which had errors exceeding 1° and more rarely one exceeding 2°. The thermometers on which the above deductions rest were chosen to represent seven makers, and may be fairly taken to indicate the liability to error in using clinical thermometers, which have not been compared with authoritative standards. It is not unlikely that members of the medical profession have been sometimes misled by the readings of inaccurate thermometers and may have made unfavorable statements regarding the chances of recovery of patients whose temperatures were high.

The Thermometric Bureau at the Winchester Observatory, of Yale College (from whose official circular and an article published by Dr. L. Waldo, in the *Popular Science Monthly* for January, 1881, the above was copied), has been established by the Corporation of Yale College, at the recommendation of the Board of Managers of the Winchester Observatory, in order to afford desired facilities for the adequate verification of thermometers.

Thermometers are received by the observatory for the purpose of comparison with the observatory standards, and certificates of comparison signed by the Astronomer in charge are issued with thermometers so compared. These certificates contain a statement of the corrections to be applied at intervals of five or ten degrees of the thermometer scale to cause it to have the same reading as the observatory standards. In general these corrections will be expressed in tenths of one degree.

*We are prepared to furnish when desired a certificate of this description with any style of thermometer as enumerated on previous page, for an additional charge of \$0 50**

From the above will be seen that thermometers when accompanied by a certificate of the Winchester Observatory in this country or Kew Observatory in England are preferable to all so-called "warranted correct" or "tested" (the latter when unaccompanied by a certificate of either of these observatories), as such statements are unreliable, and therefore not as desirable as a TRUE statement of diversions.

Thorough Pin and Bog Spavin Truss, combined.	10 00
Thumb Lancet. Plate 15. Fig. 180.	1 00
“ “ in brass handle with set screw	2 25
Tooth Chain Saw. Plate 5. Fig. 51	12 50
Tooth Chisel, E. A. A. Grange's. The chisel is propelled by a screw and crank handle.	
“ “ Prof. Goings's. Plate 10. Fig. 104	17 50*
“ “ French Model. Plate 10. Fig. 103	14 00
“ “ Plain, length 16 inches. Plate 10. Fig. 96	3 00
“ “ Plain, length 10 inches. Plate 10. Fig. 96	2 00
“ “ Narrow, length 6 inches. Plate 10. Fig. 95	1 25
“ “ Narrow, length 5 inches. Plate 10. Fig. 98	1 25
“ “ Narrow, length 4½ inches, with steel head	1 50
Tooth Cutting Forceps, Liautard's; extra large and strong, one jaw hooked to prevent slipping; with closing screw and crank handle.	30 00
Tooth Cutting Forceps, Möller's. Plate 11. Fig. 111	32 00
“ “ “ Möller's, with plain closing screw and crank handle.	30 00
“ “ “ French model. Plate 11. Fig. 112	20 50
“ “ “ “ “ Plate 11. Fig. 110	25 00
“ “ “ House's. Plate 11. Fig. 113	6 50
“ “ “ “ “ Plate 11. Fig. 116	6 50
“ “ “ “ “ angular. Plate 11. Fig. 115	6 50
“ “ “ “ “ curved on flat. Plate 11. Fig. 114.	6 50
Tooth File, Adjustable, in stiff handle. Plate 10. Fig. 101	3 00
“ “ Adjustable handle to unscrew into two parts. Plate 10. Fig. 102	4 00
“ “ Extra; for the adjustable. Plate 10. Fig. 108	0 40
“ “ House's; in stiff handle.	3 00*
“ “ “ handle to unscrew into two parts.	4 00*
“ “ Extra; for House's	0 40*
“ “ Automatic, E. A. A. Grange's.	
“ “ House's; for front teeth. Plate 29. Fig. 333.	1 00
“ “ Plain “ “ “	1 00
“ “ Improved cut; in handle, for front teeth	3 00

Tooth Forceps, length, 7½ inches.	\$ 1 75
“ “ for wolf teeth, length, 9 inches. Plate 10. Fig. 109.	3 50
“ “ length, 15 inches. Plate 10. Fig. 105	5 50
“ “ Prof. Going's; extra large and strong, with closing screw and crank handle. Plate 10. Fig. 106	25 00
“ “ House's, combined with dental cutting forceps, one set of removable handles to both. Plate 10. Fig. 107	28 00
Tooth Gouges, length 5 inches. Plate 10. Fig. 99	1 50
“ “ length 4½ inches, with steel heads. Plate 10. Fig. 97	2 00
Tooth Hook, House's.	2 00
Tooth Key, with hooks of assorted sizes. Plate 11. Fig. 123	35 00
Tooth Knife and Pick, Hurlburt's. Plate 11. Fig. 122.	2 00
Tooth Mallet, lead filled, not rebounding. Plate 10. Fig. 100.	2 50
“ “ boxwood	0 50
Tooth Pick, right	1 60
“ “ left	1 60
Tooth Rasp, plain; stiff handle.	1 75*
“ “ guarded; stiff handle. Plate 11. Fig. 117	3 00*
“ “ plain; handle to unscrew into two parts	2 50*
“ “ guarded; handle to unscrew into two parts.	3 75*
Tooth Saw, plain. Plate 11. Fig. 120.	1 50
“ “ fine ferruled. Plate 11. Fig. 121	1 75
“ “ French model. Plate 11. Fig. 118	3 50
“ “ Bow. Plate 11. Fig. 119.	6 00
Tracheotomy Tubes, metal, plain	4 00
“ “ hard rubber	4 00
“ “ self-retaining. Plate 24. Fig. 289	6 00
The part A, which is shown separately, is removable to enable introduction.	
Tracheotomy Tubes, Liautard's.	15 00
Trephine, with conic crown. Plate 24. Fig. 291	4 00
“ with small conic crown	4 00
“ with cylindric crown	4 00
“ with small cylindric crown	4 00
“ with cylindric crown and sliding guard. Plate 24. Fig. 290.	14 50
Trephining Elevator. Plate 24. Fig. 292	1 25
“ “ and Raspatory. Plate 24. Fig. 293	1 50
“ “ and Spatula. Plate 24. Fig. 294	0 75
Trocar, Coecum.	3 00
Trocar, Exploring. Plate 13. Fig. 161	1 50
“ “ with aspirating bulb.	2 00
Trocar, with three oval canulas, for sheep.	2 75
“ with one round canula having ring handles and cap, for sheep.	3 50
“ “ “ “ “ “ “ “ “ “ for cattle.	
Plate 7. Fig. 67	4 00
“ with one oval canula, for cattle.	3 00
“ with two round canulas.	2 25
Trocars, set of four assorted sizes, with silver canulas. Plate 25. Fig. 300	6 50
“ “ “ three “ “ “ “ “	5 00

Plate XXV.



Trocar for Hyovetebrotomy	\$8 00
Trocar, with German silver canula, off-flow scoop and cap, assorted diameters. Fig. 301.....	1 75
“ with silver canula, off-flow scoop and cap, assorted diameters. \$2 00 to	2 50
“ curved, with German silver canula. Fig. 302	2 50
“ “ with Silver canula. Fig. 302.....	3 00
Truss for Bog Spavin, Prof. Going's. Plate 5. Fig. 42	7 00
Truss, combined, for Bog Spavin and Thoroughpin.....	10 00
Truss for Stallions, to prevent injury whilst trotting. Plate 30. Fig. 344.	6 00*
Truss, Improved, for Stallions, to prevent injury whilst trotting. Plate 30. Fig. 343.....	8 00*
U rinometer, glass, with plain jar. Fig. 303.....	0 75
“ “ with graduated jar.....	1 50
“ hard rubber, with graduated jar, in wood box.....	5 00

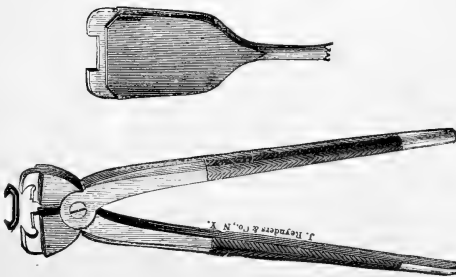
V aginal Distentor, used in spaying. Fig. 307	\$10 00
V aginal Speculum, L. E. Wheat's. Fig. 305	25 00
V aginal Suture Needle, with removable steel point, Dietrich's	2 00
“ “ “ Sauberg's. Fig. 304	1 25
V arnell's Improved Balling Iron or Mouth Speculum, with regulating screw, blades rubber covered, for protection of the gums. Plate 4. Fig. 29.	9 00
V ulsella Forceps, straight, 6½ inches	2 50
“ “ curved, 6½ inches	2 75
“ “ straight, 10 inches, with ratchet catch. Plate 14. Fig. 174	3 50
“ “ with reversible blades, Hank's. Plate 14. Fig. 165 ..	3 00

Wallets, for instruments, of brown or black grain leather, chamois lined with pocket inside. Fig. 306.	Length, 10 in., \$4 50*;	length, 12 in.	5 00*		
	Length, 14 in.,	6 00*;	length, 16 in.	7 00*	
Wheat, L. E., Vaginal Speculum. Fig. 305	25 00				
William's Castrating Clamp. Plate 6. Fig. 56	7 50				
William's Castrating Torsion Forceps	5 50				
Wire Twister, Dawson's, for twisting loops of silver wire in cavities.					
- Plate 9. Fig. 90	2 50				
Wire Twisting Forceps, Emmet's. Plate 14. Fig. 163	2 75				
Wire and Pin Cutting Forceps	2 50				
" " " " " combined with needle holder, Stimson's.					
Plate 18. Fig. 213	3 50				
Wire, of pure silver, for ligatures and sutures, per coil, No. 31, finest	0 20				
	No. 30, \$0 20;	No. 29, \$0 25;	No. 28, 0 30;	No. 27,	0 35
	No. 26, \$0 40;	No. 25, 0 45;	No. 24,	0 50	
Wire, of soft metal, for ligatures and sutures, two sizes, per coil, \$0 35 and	0 45				

Description of the New Set of Instruments for Closing Quarter and Sand Cracks in Hoofs.

Our attention has recently been called by Mr. Reynolds, Surgical Instrument maker of 303 4th Ave., to an improved method of closing cracks and fissures in the horse's hoof. The drawing will indicate the form of the apparatus, which consists essentially of two parts; an instrument for puncturing the hoof—a powerful pair of forceps for compressing the ends or points of the clamps into the hoof. Punctures on each side of the crack in the

[From the „*Spirit of the Times*.”]



wall of hoof are effected by the cautery at red heat, to a sufficient depth to insure secure hold of the clamp, which, by means of the forceps, is first pushed firmly into the punctures made by the cautery, and then the ends of the clamps are carefully compressed by the forceps, using no greater force than the animal will bear without pain. We have used these clamps in a number of cases with complete success.

Enumeration and Contents of Cases.

In the following pages we enumerate and describe cases, etc., as kept in stock by us; we will make to order any style, containing any combination of instruments desired.

DISSECTING CASES.

DISSECTING CASE No. 2, contains: 2 ass. scalpels, 1 tenaculum, 1 cartilage knife, 1 dissecting forceps, 1 scissors, 1 set of hooks on chain; in a mahogany case.

Price, ebony handled instruments, \$4 00; ivory handled instruments...\$4 50

DISSECTING CASE No. 3, contains: 4 ass. scalpels, 1 tenaculum, 1 cartilage knife, 1 dissecting forceps, 1 scissors, 1 blowpipe, 1 set of hooks on chain; in mahogany case.

Price, with ebony handled instruments, \$5 50; ivory handled instruments, \$6 25

DISSECTING CASE No. 4, Chautière's, contains: 4 scalpels, 1 tenaculum, 1 cartilage knife, 1 scissors, 1 dissecting forceps, 1 blowpipe, 1 set of hooks on chain; in a zinc case, black oil cloth covered.

Price.....instruments ebony handles, \$7 50; ivory, \$8 50

HOOF CASES.

HOOF CASE No. 1, contains: 3 single-edged drawing knives of assorted sizes, 1 sharp pointed double edged sage knife, 1 reamer, fitting into one handle with spring catch; in wrapper case. Plate 9. Fig. 92.



Price.....\$9 00

HOOF CASE No. 2, Prof. Liautard's, contains: 1 single edged drawing knife for searching, 2 double edged drawing knives of assorted widths of curve, 1 sharp pointed double edged sage knife, 1 single edged sage knife, right; 1 single edged sage knife, left; all in ebony handles, French model; 1 plain spring forceps, 1 sharp pointed curved on flat scissors, 1 director, 1 silver probe; in a mahogany case.

Price.....\$16 00

MEDICINE CHESTS.

Made of the Best Russet Leather. Containing the following Square Glass Stoppered Bottles, in Mahogany Trays. Mortar, Graduated Measure. Four Jars, Tray for Scales, and Space for Instruments under Bottles.

 The Size is by Inches. 

	Bottles					Price.	Length.	Width.	Height.
Containing	4..4 oz.	16..2 oz.	18..1 oz.	6.. $\frac{1}{2}$ oz.	44..(1)	\$21.00	..14	..9 $\frac{1}{4}$	..9 $\frac{1}{4}$
Ext. "	4..4 "	18..2 "	20..1 "	8.. $\frac{1}{2}$ "	50..(1)	..23.00	..15 $\frac{3}{4}$	..9 $\frac{1}{4}$	..9 $\frac{1}{4}$
"		14..2 "		42.. $\frac{1}{2}$ "	56..(2)	..23.00	..12 $\frac{3}{4}$	..7 $\frac{3}{4}$	..11
"		16..2 "		8.. $\frac{1}{2}$ "	34..(3)	..17.00	..12 $\frac{3}{4}$	..8	..8 $\frac{1}{2}$
"	2..4 "	16..2 "	19..1 "		37..(4)	..18.50	..12 $\frac{3}{4}$	..8 $\frac{1}{4}$	..9 $\frac{1}{4}$
"	2..4 "	14..2 "	16..1 "	Plate 27.	32..(5)	..17.00	..11	..8 $\frac{1}{4}$	..9 $\frac{1}{4}$
"	2..4 "	12..2 "	13..1 "	Fig. 308.	27..(6)	..15.50	..9 $\frac{3}{4}$	..8 $\frac{1}{4}$	..9 $\frac{1}{4}$
	27..1 "	18.. $\frac{1}{2}$ "			45..(8)	..21.00	..		
	21..1 "	14.. $\frac{1}{2}$ "			35..(9)	..17.00	..		
	18..1 "	10.. $\frac{1}{2}$ "			28..(10)	..14.00	..		
	35..1 "				35..(11)	..17.00	..		
	28..1 "				28..(12)	..14.00	..		

The following without Mortars, Measures or Jars.

Containing 4..4 oz. 10..2 oz. 6..1	20..(7) \$12.00.. 9½..7 ..8¼
" 15..1½ " bottles	(8) ..10.00.. 8¼..5¾..7¼
" 20..1 "	20..(14)..11.00
" 16..1 "	16..(15).. 9.00

Tray in front of Bottles.

Containing 10..2 oz. 4..1 oz.	14..(9) \$9.50.. 9 ..6¼..5¾
" 5..4 " 7..2 " 6..1 oz.	18..(10)..11.50..10 ..7¾..5¾
" 4..4 " 9..2 " 12..1 " 6..½ oz.	31..(11)..14.00..13 ..9¾..5¾

All the above with Locks. The following with Buckle and Strap.

Containing 5..1½ oz. 4..1 oz. space in front	9..(12)..\$5.50.. 7 ..4¾..4¾
" 10..1½ "	(13).. 5.00 .. 7 ..3¾..4¾
" 2..4 " 6..2 oz. space in front	8..(14).. 6.00.. 7 ..5¾..5
" 12..½ " bottles	5.00.. 8 ..3½..3¾
" 9..1 "	(22).. 6.50..
" 12..1 "	(23).. 6.50
" 8..½ "	(26).. 6.00
" 6..½ "	(27).. 5.50

MEDICINE CHEST AND INSTRUMENT CASE COMBINED, Prof. A. Liautard's, contains:

6 two-oz. glass stoppered bottles, 2 glass jars for ointments, 1 balling iron, 1 elastic catheter.

In drawer B: 1 single edged sage knife, right, 1 single edged sage knife, left; 1 sharp pointed double edged sage knife, 1 single edged drawing knife for searching, 2 double edged drawing knives of assorted widths of curve; all in ebony handles, French model; 1 plaster spatula.

In Drawer A: 1 scalpel, straight edge, closing into hard rubber handle, with slide catch; 1 scalpel, convex edge, closing into hard rubber handle, with slide catch; 2 assorted lancets, 1 coecum trocar, 1 dog seaton needle, closing into hard rubber handle, with slide catch; 1 plain artery forceps, 1 grooved seaton needle, separating into two parts; 1 curved on flat scissors, 1 director, 1 porte caustic, 1 hard rubber syringe, with cone fitting into the canula of the coecum trocar; put up in a strong wooden case, covered with black calf-skin, having a handle on the top of the cover. Plate 27. Fig. 309.

Price\$55 00

When desired, the above is also furnished without the contents of the drawer A for\$34 50

Or the same will be filled with such instruments as the purchaser may select.

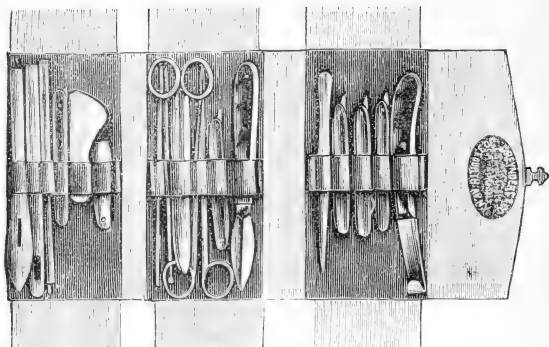
POCKET CASES.

POCKET CASE No. 1, two-fold, American model, contains: 1 scalpel, straight or convex edged; 1 sharp pointed curved bistoury, 1 tenaculum;—all closing into plain hard rubber handles; 1 straight scissors, 1 one-bladed fleam, 1 plain artery forceps, 1 sharp pointed double edged sage knife, 1 lancet, 1 seaton needle, 1 probe, separating into two parts; 4 needles and silk. Plate 26, Fig. 311.

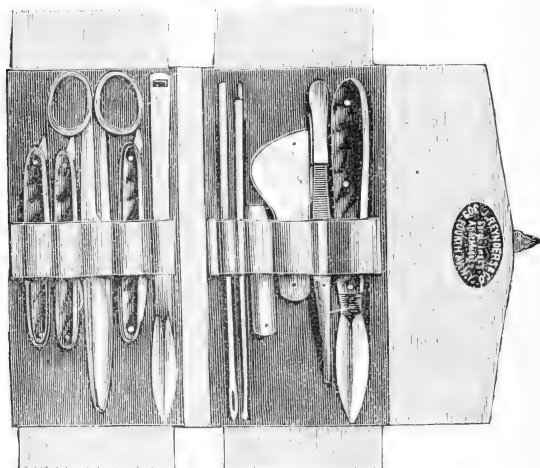
Price\$15 00

Plate XXVI.

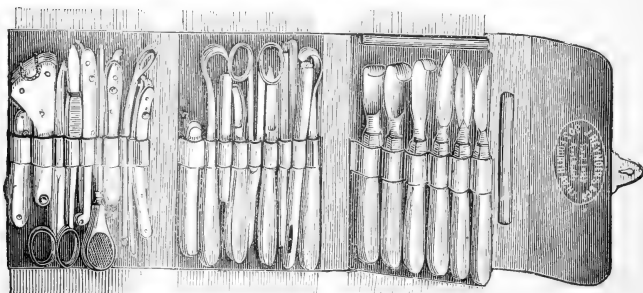
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POCKET CASE No. 2, three-fold, American model, contains: 1 scalpel, straight edged; 1 scalpel, convex edged; 1 bistoury, curved, sharp pointed; 1 bistoury, curved, probe pointed; 1 tenaculum;—all closing into plain hard rubber handles; 1 lancet; 1 fleam, two blades; 1 drawing knife, single edged; 1 sage knife, sharp pointed, double edged; 1 seaton needle, separating into three parts; 1 scissors curved on flat; 1 dressing forceps, with scissor handles; 1 artery forceps, plain; 1 probe, separating into two parts; 4 needles, and silk. Fig. 310.

Price\$24 00

POCKET CASE No. 3, three-fold, English model, contains: 1 scalpel, 1 bistoury probe pointed; 1 aneurism needle, 1 tenaculum, 1 castrating knife, 1 drawing knife, single edged—all closing into horn handles with springs; 1 fleam, two blades; 1 scissors, straight; 1 seaton needle, in protecting horn handle; 2 lancets, assorted; 1 director and scoop; 1 plaster spatula; 1 rowling scissors; 1 dressing forceps, with scissor handles; needles and silk.

Price\$30 00

POCKET CASE No. 4, two-fold French model, contains: 1 scalpel, convex edged, closing into handle, with slide catch; 1 fleam, two blades; 1 scissors, curved on flat; 1 artery forceps, plain; 1 director, with myrtle leaf; 1 seaton needle, separating into two parts; 1 lancet, 1 drawing knife, double edged; 1 sage knife, sharp pointed, double edged; 1 drawing knife, single edged; needles and silk.

Price\$20 00

POCKET CASE No. 5, two-fold, with pressed leather frame, French Model, contains: 1 bistoury, straight, sharp pointed; 1 scalpel, convex edged; 1 sage knife, single edged;—all closing into handles, with slide catches; 1 fleam, two blades; 1 artery forceps, plain; 1 drawing knife, double edged, in ebony handle; 1 lancet, 1 seaton needle, separating into three parts; 1 director, with myrtle leaf; 1 scissors curved on flat; suture pins, needles and silk.

Price\$30 00

POCKET CASE No. 6, three-fold, French model, contains: 1 castrating knife, 1 scalpel, convex edged; 1 bistoury, straight, sharp pointed;—all closing into handles with slide catches; 1 fleam, three blades; 1 scissors, curved on flat; 1 artery forceps, plain; 1 director, with myrtle leaf; 1 dressing forceps, with scissor handles; 1 caustic holder, with silver burner; 1 seaton needle, separating into three parts; 1 drawing knife, double edged; 1 drawing knife, single edged; 1 sage knife, sharp pointed, double edged; 1 sage knife, single edged, right; 1 sage knife, single edged, left; 2 lancets, assorted; needles and silk.

Price\$32 00

POCKET CASE No. 7, three-fold, French model, contains: 1 castrating knife, 1 dog seaton needle, 1 bistoury, straight, sharp pointed; 1 bistoury, straight, probe pointed, with extra long shank; 1 scalpel, convex edged;—all closing into handles with slide catches; 1 fleam, 3 blades; 1 scissors, curved on flat; 1 coecum trocar, 1 seaton needle, S form and grooved; 1 artery forceps, plain; 1 director, with myrtle leaf; 1 caustic holder, with silver burner; 2 retractors, 1 bistoury, straight, sharp pointed, in ebony handle; 1 dressing forceps, with scissor handles; 1 bistoury (neurotomy) curved,

probe pointed, in ebony handle; 1 seaton needle, separating into three parts; 3 drawing knives, double edged, of assorted widths of curve; 1 sage knife, sharp pointed, double edged; 1 sage knife, single edged, right; 1 sage knife, single edged, left; 3 lancets, assorted; needles and silk. Fig. 312.

Price \$50 00

POCKET CASE No. 8, Gerlach's, contains: 2 suture needles, assorted; 1 tenaculum; 1 bistoury, curved, probe pointed; 2 scalpels, convex edged, of assorted sizes; 2 bistouries, curved, sharp pointed, of assorted widths; all fitting into one handle, with spring catch. In wrapper case.

Price \$12 00

POCKET CASE No. 9, Prof. A. Liautard's, compact, two-fold, contains: 1 exploring needle and delicate scalpel, convex edged, closing into one shell handle, with spring catches; 1 bistoury, curved, sharp pointed; 1 bistoury, curved, probe pointed; 2 scalpels, assorted sizes, closing into one shell handle, with spring catches; 2 drawing knives, double edged, of assorted widths of curve; 1 sage knife, sharp pointed, double edged, fitting into one handle, with spring catch; 1 artery forceps, plain; 1 dressing forceps, with scissor handles; 1 caustic holder, with platinum burner; 1 Cleborne's artery forceps; 2 probes, silver; 1 director, with aneurism needle; 1 scissors, curved on flat; 1 exploring trocar, needles and silk.

Price \$24 00*

POST MORTEM CASES.

POST MORTEM CASE No. 1, contains: saw, chisel and stilet fitting into one handle 1 cartilage knife, all steel; 1 cartilage knife, extra heavy; 3 ass. scalpels 1 tenaculum, 1 dissecting forceps, plain; 1 dissecting forceps, extra long; 1 enterotome, 1 costatome, 1 straight scissors, 1 steel mallet, 1 rachitome 1 blow pipe, 1 set of hooks on chain, 1 brain knife, needles and linen thread: in a mahogany velvet lined case.

Price \$42 00

POST MORTEM CASE No. 2, contains: 1 Finnell's saw and knife, fitting into one handle; 1 cartilage knife, all steel, 3 ass. scalpels, 1 tenaculum, 1 chisel, plain; 1 rachitome, 1 steel mallet, 1 enterotome, 1 scissors, 1 plain dissecting forceps, 1 blow-pipe, 1 set of hooks on chain, needles and linen thread; in a rosewood case.

Price \$26 00

POST MORTEM CASE No. 3, Finnell's, contains: 1 Finnell's saw and knife, fitting into one handle; 3 ass. scalpels, 1 tenaculum, 1 plain dissecting forceps, 1 scissors, 1 chisel, 1 blow pipe, 1 set of hooks on chain, needles and thread; in a mahogany case.

Price, ebony handled instruments \$11 25; ivory handled instruments..\$13 00

POST MORTEM CASE No. 4, English model, contains: 1 saw, with movable back; 1 chisel, 1 scalpel, extra large and heavy, and 1 knife, extra long, fitting into one handle, with spring catch; 1 blow-pipe, 1 scissors, straight; 1 scissors curved on flat; 1 dissecting forceps, 1 set hooks on chain, 1 tenaculum, 1 cartilage knife, with steel handle; 4 scalpels of assorted sizes. In a mahogany case, polished inside.

Price \$25 00

SADDLE BAGS.

Our saddle bags are made of the very best materials and workmanship, and warranted as represented, any other styles furnished to order at the shortest notice and on the most REASONABLE TERMS.

Made of the best russet bridle leather. Patent leather covers. Space under covers for instruments, etc. Mahogany drawers in the end of lower part. Solid leather drawers, one dollar extra.

Containing	24. 1 oz., 4. 1½ oz. bottles	(12) ..	\$13 50
"	24. 1 " 4. 1 " " with pockets	(12) ..	14 50
"	20. 1 " 4. 1½ " ground-stop. bottles	(7) ..	12 50
Ex. "	20. 1 " 4. 1½ " and pockets	(7) ..	13 50
"	24. 1 " cork-stop. bottles	(7) ..	11 50
"	20. 1½ " glass-stop. "	(11) ..	12 00
"	20. 1 " " "	(6) ..	11 50
"	20. 1 " cork-stop. "	(6) ..	10 50
"	16. 2 " glass-stop. " Plate 27. Fig. 313.	(13) ..	10 50
"	16. 1 " cork-stop. "	(13) ..	9 50

IMPROVED SADDLE BAG:

Is the best and neatest bag ever offered to the profession. It has metal boxes covered with the best of well-tanned leather, firmly rivetted together with copper rivets, and finished in the neatest manner. There is not one stitch of sewing on the entire bag; it has no straps or buckles to loosen; also, no draws to pull out, and gives the least strain on the lock of any bag ever made. It has nickel-plated trimmings; the bottles have acid proof rubber corks, and are separated from each other by leather partitions. (They are made in two styles, black and russet.)

No. A, large size, Plate 27. Fig. 314; containing 30 bottles, price . \$12 00*

No. B, small size, containing 24 bottles, price 11 00*

SADDLE BAGS. Plate 27. Fig. 315. Made of the best russet bridle leather. With patent leather covers. Drawer of polished mahogany, velvet lined.

Containing	12 1½ oz., 12 ¾ oz. 24 bottles	(1) ..	\$12 00
"	10 ½ " 10 ¾ " 20 "	(2) ..	11 00
"	8 1½ " 8 ¾ " 16 "	(3) ..	10 00

Flat Pattern, Two Flaps.

Containing	10 1½ oz., 10 ¾ oz. 20 bottles	(14) ..	11 50
"	12 1½ " 12 ¾ " 24 "	(16) ..	12 50
"	12 1½ " 21 ¾ " 33 "	(17) ..	13 50
Containing	8 1 oz., 8 ½ oz. ground stoppered bottles	(1) ..	9 50
"	10 1 " 10 ½ " " "	(2) ..	10 50
"	12 1 " 12 ½ " " "	(3) ..	11 50

SADDLE BAGS—BOX PATTERN. Plate 27. Fig. 316. No. 5. Containing 10 2 oz. 6 1 oz. round cork stop bottles. With space for instruments, etc.

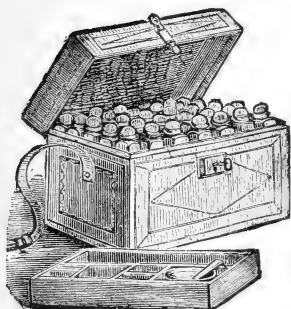
Price \$7 00

SADDLE BAGS—BOX PATTERN. Plate 27. Fig. 317.

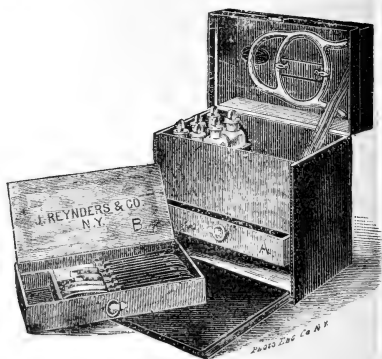
Containing	24 ground stoppered bottles	(4) ..	\$12 00
Extra, with pockets		(4) ..	13 00
Containing	20 ground stoppered bottles	(8) ..	11 00
Extra, with pockets		(8) ..	12 00
Containing	16 ground stoppered bottles	(10) ..	10 00
"	20 cork " "	(10) ..	9 25
Plain Saddle Bags, containing	20 cork stoppered vials		8 50
"	" " 24 " "		9 25

Plate XXVII.

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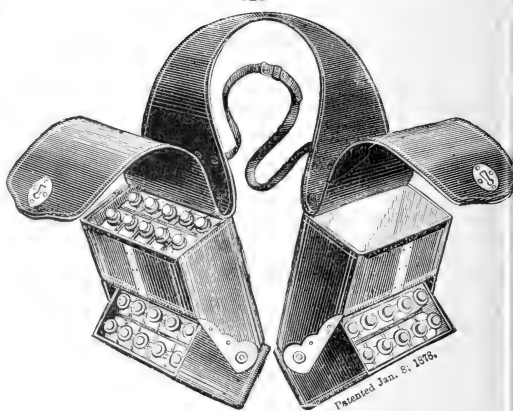
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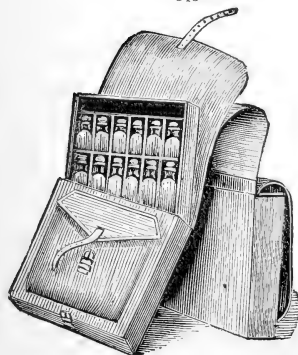
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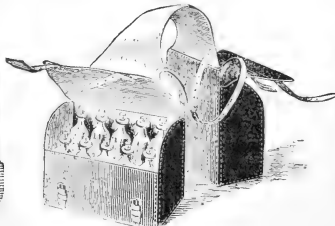
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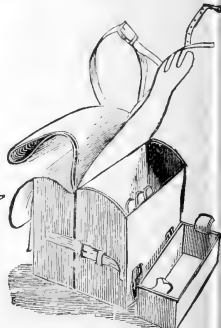
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316



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Auzoux' Anatomical Models.

(Anatomie Clastique.)

OF

DOCTOR AUZOUX, PARIS.

Extract from the Official Programme of the French University for 1849.

"The instruction in physiology and in the natural sciences would not accord with the views of the university if the professors should not sustain their lectures by continued illustration with objects of nature contained in the museums and with the detailed models of Dr. Auzoux."

The word "clastic" is derived from the Greek "Klaos"—signifying to break or separate—that is to say, anatomical models, composed of solid pieces, that can be readily taken apart and put together; one part resting upon the other as in a veritable dissection.

The models are made of papier-maché; chewed or mashed paper mixed with size or glue, which, when newly composed, is run into moulds, wherefrom it takes the most delicate impressions. When thoroughly dry a remarkable degree of lightness and elasticity, combined with a degree of strength equal to that of wood, is acquired by this material.

These clastic models of animal anatomy, issued by Dr. Auzoux, of Paris, have been universally accepted as a chef-d'œuvre in this department of scientific illustration, that it seems quite unnecessary to say any words in their praise. No similar models have ever been undertaken giving the same abundance of detail or possessing the same exquisite excellence and beauty of execution. They are largely distributed through university museums and the schools of medical science and anatomical study throughout all Europe. In America they are favorably known in a few of our higher institutions, which are so fortunate as to possess some portions of the series.

Orders sent to us will be promptly attended to, and the objects obtained from Paris (where we have an agent who gives our orders his personal attention) at the earliest moment, and with the least possible expense for transportation. It must be stated that the time necessary for filling an order by Dr. Auzoux (owing to the great call for these models) is very considerable. Therefore application should be made at the earliest possible date.

Of the following list of Dr. Auzoux's models, those marked by a star* are usually kept in stock by us, all others are imported to order only.

Orders for the latter must be accompanied by a deposit equal to 33½ per cent. of their value, such remittance to cover any risk of the models not being claimed upon arrival.

On arrival the models are sent C. O. D. for the balance due.

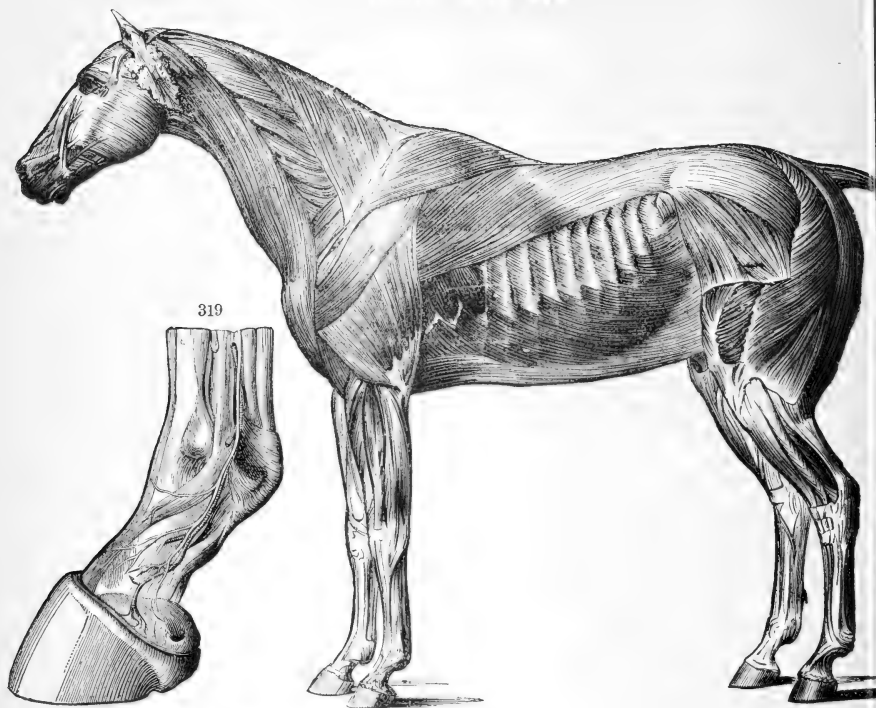
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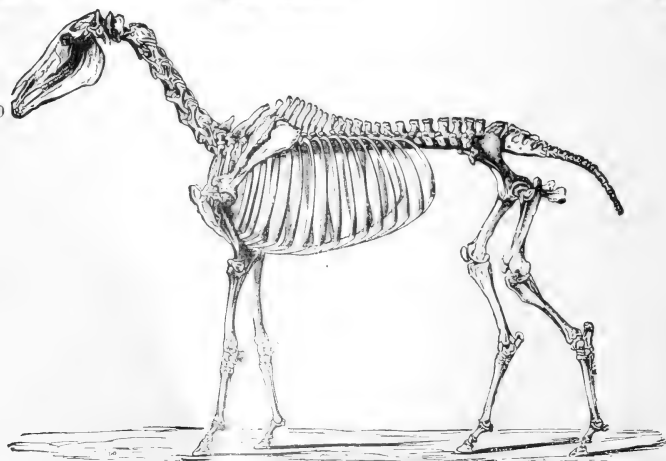
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318

Plate XXVIII.



320



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34. Arab Horse. Fig. 318. Complete (4 feet 3 inches high), exhibiting in detail more than 3,000 objects separating into 97 pieces; showing on one side the superficial muscles, nerves, and vessels; on the other, the same removable separately, as in a dissection, from the superficial layer to the skeleton; in the splanchnic cavities are found all the organs contained therein, which also may be removed and studied separately. This model of the horse, which leaves nothing to be desired has been adopted by the French cavalry corps, veterinary and agricultural schools. It has also been purchased by several foreign governments as an efficacious means of popularizing the ideas of anatomy and physiology necessary for the amelioration of the equine race, and for the choice, employment and preservation of the horse. . . . \$1,546 00*
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Appendix.

Castrating Instrument, C. B. Halstead's Patent. Plate 29, Fig. 335....\$10 00*

Cautery Iron with platinum points. Plate 30, Fig. 337 10 00

Clippers, for two hands, of Phipp's & Burman's celebrated manufacture.

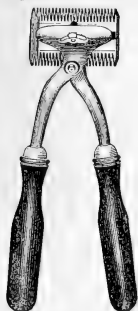
Have handsomely ebonized handles, neat stout leather pockets as per Fig. 327, Plate 29, are packed in substantial boxes and each one is accompanied by a certificate of genuineness bearing fac-simile of the manufacturer's signature. Broken parts can be duplicated.

Clippers and Repairs can be sent by mail, the postage being about as follows :

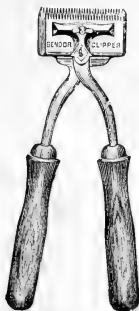
CLIPPERS :—Toilets, 15 cts.; others 20 cts.

REPAIRS :—Plates, 4 cts. each. Toilet Handles, 5 cts. each ; other Handles, 6 cts. each. Bend Or Arched Cap, 4 cts.; other Arched Caps or Springs, 3 cts. each. Bolt and Nut, 1 ct. Toilet Handle Springs, 2 cts. per pair. Wooden Handles, 2 cts. Leather Pocket, 2 cts. Oil Can, 2 cts.

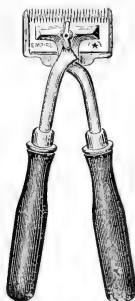
Greater security in transmission is secured by Registration at an additional cost of ten Cents per package.



345.



346.



347.

"Apex." Fig. 345. This Clipper is reversible and constructed upon the same principle as the "World's." See page 19. Its plates can be reversed or removed without separating the handles. It is provided with a shield which protects the row of teeth not in use and can be adjusted to either row, in an instant, by simply slacking the fly nut. We consider the "Apex" the height of perfection..... 4 50*

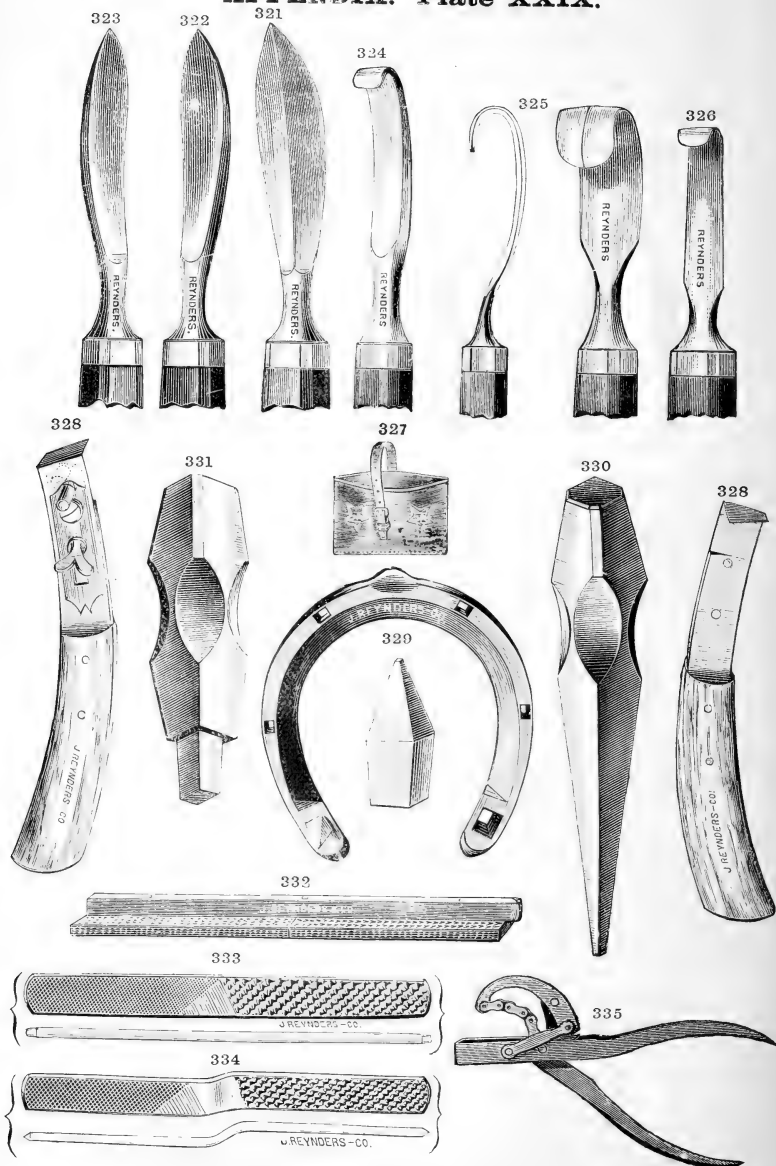
Separate parts, the same list as "World's," see page 19.

"Bend Or." Fig. 346. This Clipper is a modification of the Handicap. The chief difference is in the arched cap extending back over the plates and carrying the pin upon which the right handle works. The whole machine can be taken apart by unscrewing the fly nut. This Clipper has been extensively imitated..... 3 25*

Separate Arched Cap \$0.40.* Other separate parts, the same list as "Handicap," see page 19.

"Empire." Fig. 347. A new Clipper of simple but substantial and

APPENDIX.—Plate XXIX.

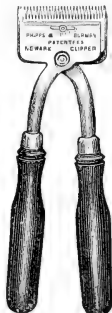


effective construction. The arched cap and left handle are in one piece. This Clipper is made under special contract, and is fitted and finished in the best manner. Its name, "Empire," is a trade mark, \$3 00*

Separate left handle \$0.60 ; other separate parts, the same list as "Handicap," see page 19.



348.



349.



350.

"Foxhall." Fig. 348. This Clipper is made under special contract, and its name is a trade mark. It is offered at a very low price, but is strictly first-class in all respects. The cutting plates are of the finest steel, thoroughly tempered. They will hold their edge and bear re-sharpening as well as the highest priced Clipper in the market. All of the bolts are fitted with fly nuts, so that the pressure can be regulated or the entire machine taken apart without use of a wrench. With light colored handles..... 2 50*

Separate Top Plate, \$1.10* ; Bottom Plate, \$1.25* ; Right Handle, \$0.50* ; Left Handle, \$0 50*.

"Newark." Fig. 349. This is a new machine. The left handle expands into a broad arched cap to which the plates and right handle are attached by separate bolts. Both plates can be removed by unscrewing the flynut, without separating the handles. The handles are heavily plated with gun metal, protecting them from rusting, and giving them an attractive appearance. This Clipper will be found well worthy of a trial..... 3 50*

Separate Right Handle, \$0.80* ; Left Handle, \$0.90 ; other separate parts, the same list as "Handicap," see page 19.

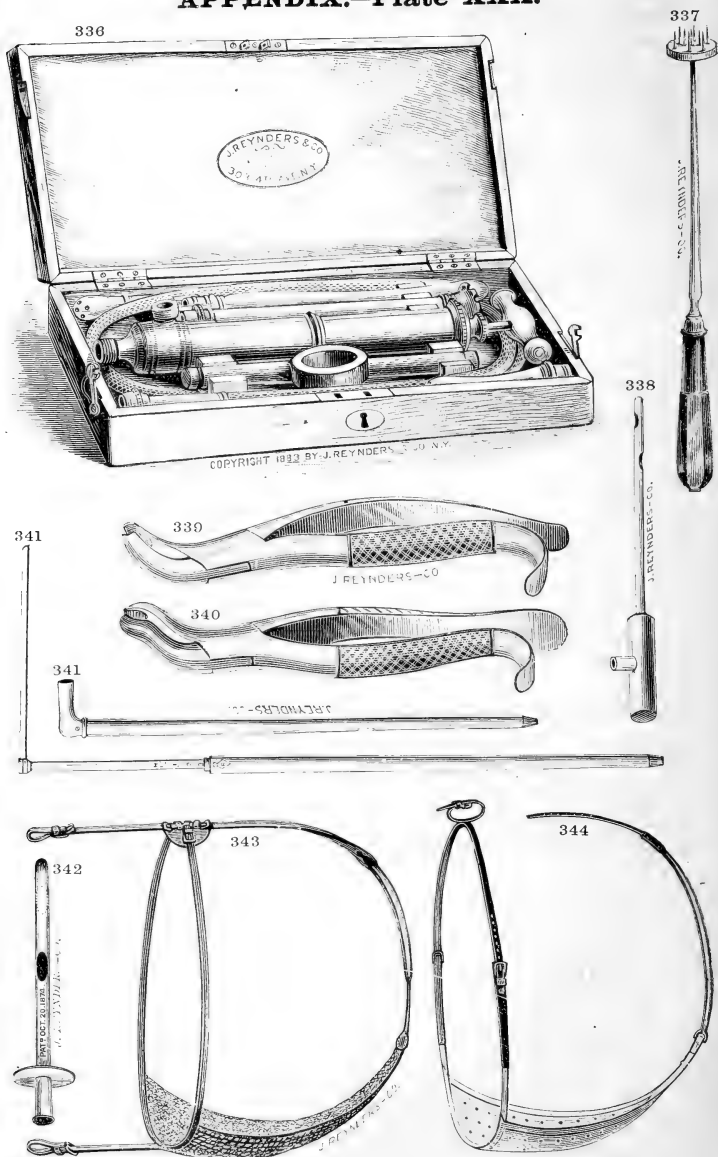
"Prince of Wales." Fig. 350. This is a handsomely finished Clipper which has proven a great favorite in the English market. The plates are adjusted by brass fly nuts instead of the ordinary hexagon nuts, thus dispensing with a wrench. The handles are heavily plated, with brass or nickel... 3 25*

Separate Top Plate, \$1.20* ; Bottom Plate, \$1.30* ; Right Handle, \$0.60* ; Left Handle, \$0.60.*

Wooden Handles, for any of the above named Clippers, plain, each, \$0.12* ; ebonized, each, \$0.20*. Leather Pocket, \$0 25* ; Pocket Oil Can, \$0.15*.

For other Clippers of Phipps & Burman's celebrated manufacture, see page 19.

APPENDIX.—Plate XXX.



Drawing Knives, French model, in ferruled ebony handles.	
Double edged, of two assorted widths of curve. Plate 29. Fig. 325, each	\$1 75
Double edged, narrow. Plate 29. Fig. 326, each	1 75
Single edged, for searching. Plate 29. Fig. 324, each	1 50
Drawing Knife, graduated for cutting the groove required by the Periplander or Charlier Shoe. Mr. Flemming's. Plate 29. Fig. 328...	5 00
Improved guarded rasp to be used with the graduated drawing knife. Plate 29. Fig. 332	3 00
Dental File, for front teeth, House's. Plate 29. Fig. 333.....	1 00
“ “ “ “ Palmer's. Plate 29. Fig. 334.....	1 00
Dental Forceps, improved model, with one handle curved. Plate 30. Fig. 334.....	4 50
“ “ improved model, with bayonet curved jaws and one handle curved. Plate 30. Fig. 340.	5 00
Frost Cogs, Flemings, set of, consisting of two dozen cogs, with one each long taper and guard punches. Plate 29. Figs. 329, 330 & 331....	6 00

"This merely consists of a square piece of steel, about the same length as the Screw-stud, which is pointed and tempered at one end (that which comes into contact with the ground or ice) and flat at the other end. This fits into a similar-shaped hole at the extremity of each branch of the shoe, and, if thought necessary, in the middle or at each side of the toe.

"This shoe should be very slightly tapering from the lower to the upper (or foot) surface, and it should be of such a size that the square stud will require a slight tap or two to make it fit in tightly, yet without projecting at all beyond the level of the foot-surface of the shoe. I was at first in doubt as to whether the studs would remain in during work, or while the horse was standing in the stable; but, to my surprise, they were firmly retained in the shoes for a month, though subjected to every kind of test except on ice, which the season has not afforded. A few blows on each side

"And, though subjected to every kind of test except on ice, which the season has not afforded, the nails on each side are sufficient to slacken them, when they require to be removed, as no longer necessary, when worn out, or when they require to be re-sharpened. The weight thickness throughout, keeps them tightly fixed in the shoe, and, from their being of the same have the shoes a little thicker and broader at the places where the holes are to be made. I eminently successful and very inexpensive, and one readily carried out anywhere in a very short time."

341.....		\$12 00 to 14 00
Milking Tubes. Plate 30. Fig. 338, each.....		1 10
“ “ Pilling's, improved. Plate 30. Fig. 342.....		

The long end of the tube is inserted in the Cow's teat, and is made to answer for any length
 test, by simply pushing the slide up or down, when the milk will flow without the use of the
 hands.

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2½ inch, for Vet. Surgeon's use.....	each	0 65*
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23 3/4	"	"	"	"	"	each,	0 65*
	"	"	"	"	"	"	0 80*

31	"	"	"	"	"	0.80*
34	"	"	"	"	"	0.95*

3 $\frac{3}{4}$	"	"	"	"	"	0.95*
3 $\frac{3}{4}$	"	"	"	"	"	1.10*

[illegible]

.....	1 25*
d's Injecting Pump, best in case. Plate 20. Fig. 993	25 00

Sage Knives, French model, in ferruled ebony handles. 25 00

Double-edged, sharp-pointed. Plate 29. Fig. 321..... 1 75

Single-edged, right.	Plate 29. Fig. 322.....	1 50
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“	“	left. Plate 29. Fig. 323.....	1 50
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Spaying Knives, T. C. Miles (Farmer Miles), 1 blade, \$3.00 ; 2 blades....	4 00
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Stallion Truss, to prevent injury when trotting. Plate 30. Fig. 344.... 6 00*

“ improved. Plate 30. Fig. 343..... 8 00*

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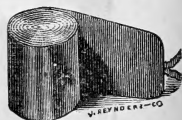
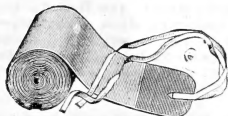
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