

## Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

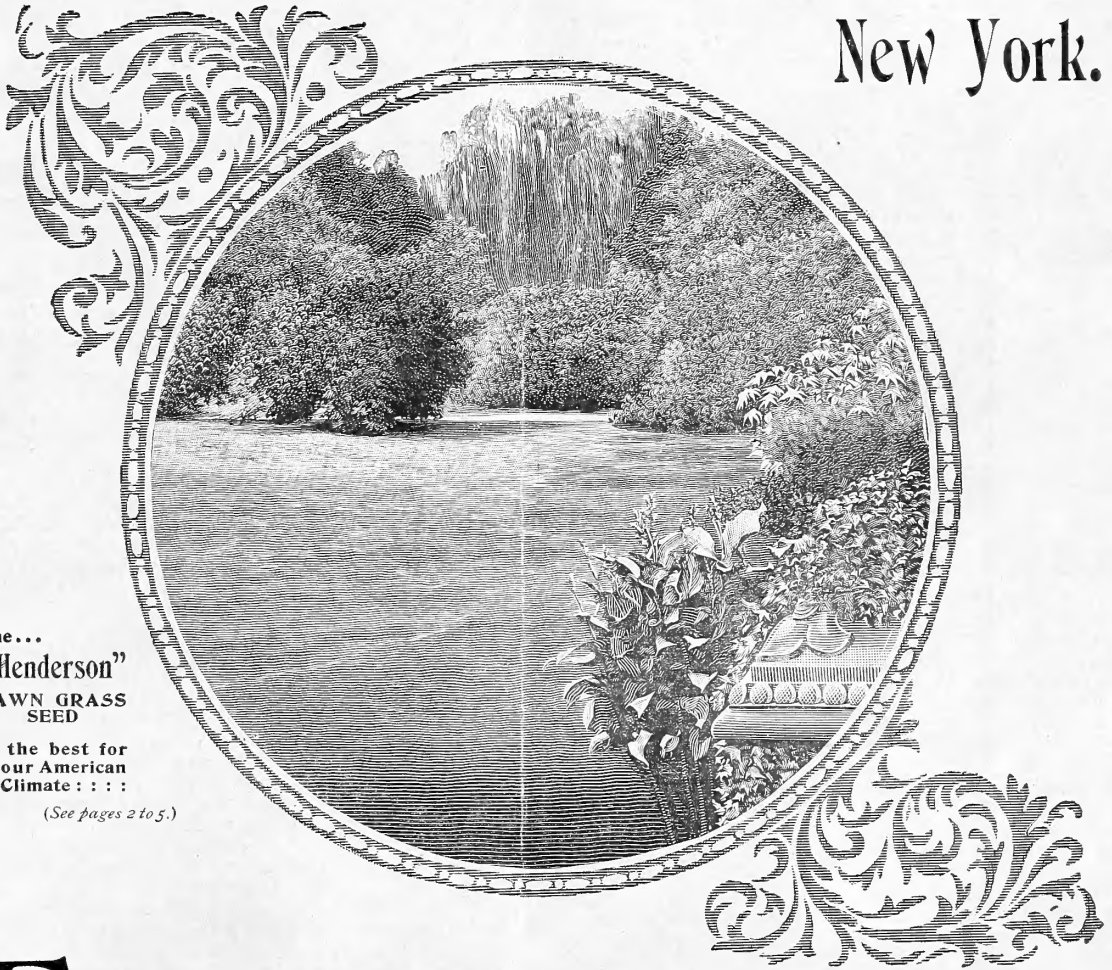


Duplicate 6274 1897

# PETER HENDERSON & Co

35 & 37 Cortlandt Street,

New York.



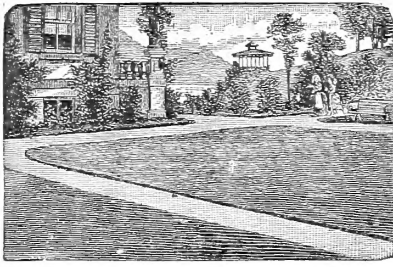
The...  
"Henderson"  
LAWN GRASS  
SEED

Is the best for  
our American  
Climate : : :

(See pages 2 to 5.)

## Everything...

FOR  
THE **LAWN.**

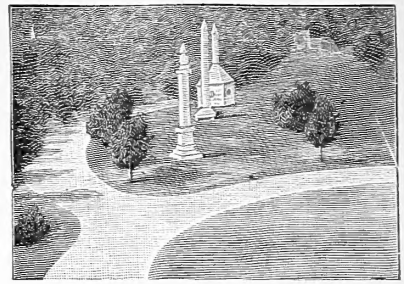


THE . . .  
**"HENDERSON"**  
**Lawn Grass Seed.**

(See pages 2 to 5.)

In large or small quantities, to suit the pretentious lawn or the modest door-yard plot. With it you can renovate old or make new

**LAWNS AND GRASS PLOTS**  
 as soft as velvet and as green as emerald all summer long. It is matchless for  
**CEMETERIES AND PARKS.**



# HOW TO MAKE A LAWN.

. . . BY . . .

**PETER HENDERSON.**

**Grading.** We not unfrequently see, after a dwelling costing 5, 10, 20, or 30,000 dollars is erected, that the grounds surrounding it are left to the tender mercy of some ignorant pretender to grade and put in shape. The educated, intelligent architect's duties, in many cases end with the completion of the building, and the "garden architect,"—is installed to grade for the lawn; and a common consequence is, that the beauty of the place may be forever marred—for this matter really in many cases requires as much intelligence and good judgment, as the construction of the dwelling itself. One of the first conditions for a perfect lawn is, that the land be perfectly drained, either naturally or artificially; if the subsoil is sand or gravel, so that water can quickly pass through it, then there will be no need for artificial drains, but if there is a stratum of adhesive clay for a subsoil then drains are indispensable every fifteen or twenty feet. As the formation of the lawn is the foundation of all subsequent operations, it is imperative that it be carefully done; for if badly done at first it cannot be changed or altered, unless to the great detriment of trees or shrubs that have been planted, or flower beds or walks that have been laid out.

The first thing to be done is to get the ground shaped to the desired grade, taking care in grading that when hills or rocks are removed, sufficient subsoil is also removed to be replaced with top soil, so that at least five inches of good soil will overlay the whole in all places; and where trees are to be planted there should be twice that depth of good soil. When the grading is finished, if the nature of the ground requires it, drains should be laid wherever necessary; then the whole should be thoroughly plowed, a subsoil following in the wake of the common plow, until it is completely pulverized. A heavy harrow should then be applied until the surface is thoroughly fined down; all stones, roots, etc., should be removed, so that a smooth surface may be obtained. We have used, with great effect and saving of labor the "Disc Smoothing Harrow," which fines and levels the land equal to a steel rake; and wherever large areas are in preparation for lawns, or in fact for any field culture, requiring a fine smooth surface, this implement will be found to be of great value.

**Seeding.** When the seed is sown a light harrow should be again applied, so as to sink the seed one inch or so in the soil, and after that a thorough rolling given, so that the surface is made

as smooth and firm as possible. In the latitude of New York the seed may be sown any time from April to October. When sown during the months of April and May, a good lawn will be formed by July or August, if the preparation has been good, or in about *one hundred days* from the time of sowing. If sown in the hot months of June and July, a sprinkling of oats should be sown at the same time, so that the shade given by the oats will protect the young grass from the sun. Lawns are very often sown during the early Fall months (September being the best) with excellent results. On some soils Kentucky Blue grass is used alone, but for a firm carpet-like lawn we consider the "Henderson" Lawn mixture is preferable, as it contains some grasses which give quick results, and form a good turf the same year as sown, while a satisfactory turf cannot be established by using Kentucky Blue grass alone under two or three years. Kentucky Blue grass will not succeed unless there is an abundance of lime in the soil, and unless it is known that there is lime present in some form it is much safer to use a mixture. For small plots, of course, digging, trenching, and raking must be done instead of plowing, subsoiling and harrowing, and the surface after sowing should be patted down with the back of a spade or rolled with a roller.

**Quantity of Seed Required.** As a guide for the proper quantity of seed required to form a perfect lawn, we may state that one quart of Lawn Grass mixture is sufficient to thoroughly sow an area of 20 feet by 15 feet—300 square feet—or to cover an acre five bushels will be required. It should be borne in mind that in order to produce the best results, grass seed for lawns should be sown at least twice as thick as if sown for hay. In fact, if very rapid results are wanted, a lawn will be much quicker obtained by using one-third more seed per acre—in a lawn of about an acre in extent, which we made, six bushels of the "Henderson" Mixture were sown on the 25th of April, harrowed well in, then rolled firmly with a heavy iron roller—the result was that by July 1st, or about sixty days from the date of sowing—a perfect lawn was obtained, having had to be twice mowed over by Machine previous to that date.

**Terraces and Slopes.** On sloping banks it is often necessary to use sod, as the rains wash the soil off before the grass seed has time to germinate. It is sometimes even necessary, in sodding very steep banks, to use





# HOW TO MAKE A LAWN.—Continued.

pins eight or ten inches in length to pin the sods in place, to prevent them from being washed down by excessive rains before the grass roots have had time to fasten in the soil. In small yards sodding is often done so as to get immediate results; but in all such cases great care should be taken to see that the sods used are of the proper quality, otherwise it is much better to wait a few weeks for the lawn seed to produce the lawn. The "Terrace-Sod" mixture which we offer is composed of deep rooting grasses, which if once established will hold the soil and prevent washing, and we advise liberal fertilizing and seeding so that the grasses may be quickly established.

**Shady Lawns.** When a lawn is much shaded either in whole or in part, the shaded portions should be sown with the "Shady Nook" Lawn Grass Mixture, which is a combination of fine dwarf growing evergreen varieties, which in their wild or natural state are to be found growing in the woods or other sheltered or shaded spots. Under or in the immediate neighborhood of large trees fertilizers should be applied liberally and frequently, for the trees absorb the fertilizer and impoverish the ground. Ground much shaded is very frequently sour, and if the drainage is defective it is apt to be covered with moss. In such cases an application of lime raked into the soil is an excellent corrector and sweetener, but the moss should be first removed by means of a sharp rake.

**Fertilizing.** The question of fertilizers for the lawn is an important one. If the soil is naturally a deep rich loam it is not indispensable that manure at all be used the first season of sowing, although in every case it would be an advantage, and is really essential if the soil is poor or light. Perhaps the best way to apply *well rotted* stable manure, is to spread it thick enough to cover the ground after plowing or digging, and then harrow or rake it in; though a little more costly, the best plan to insure permanency for the lawn is to use from 2,500 to 3,000 lbs. per acre of coarse ground bone (or better still, about half the above quantity of bone and the other half of Henderson's Lawn Enricher), or in that proportion over lesser areas, the bone decomposes slowly, giving lasting enrichment, while the Lawn Enricher gives immediate results, the combination of these two fertilizers is lasting in effect, insuring a "velvet lawn," under ordinary circumstances, for six or eight years without further application of manure.

When the land has not been fertilized before sowing, it is necessary to use some top dressing of manure, each season, to keep up the fertility of the lawn, and nothing is better for this purpose than to spread over it late in the Fall (November or December), *well rotted* short stable manure enough to partially cover the surface. On no account should *fresh* stable manure be used, or the lawn will be very apt to be ruined by the introduction of weed seeds. This should be allowed to remain on until such time as the grass shows signs of starting in the Spring, when the rough portion should be raked off and a heavy roller applied, so that the surface of the lawn be rendered smooth and firm for the mower. If the top dressing of *well rotted* stable manure has been omitted in the Fall, fine bone dust mixed with finely sifted wood ashes, in equal parts, may be sown on the lawn about as thick as sand is usually strewn on the floor, and rolled down, and we advise that the lawn be rolled several times during the spring.

**Stimulating.** Where very quick results are required, or in case a lawn is becoming bare or patchy in spots, caused by wear and tear or otherwise, the grasses may be forced into a quick growth by applying nitrate of soda at the rate of 200 lbs. per acre. If put on in the dry state it should be applied just before a shower, otherwise it is apt to burn the grasses; but the safer plan is to dissolve one pound of the nitrate in thirty to forty gallons of water and sprinkle with the solution.

**Mowing.** Should be begun in Spring as soon as the grass is two or three inches high, and continued every seven or eight days until the cessation of growth in Fall. If the lawn is gone over with the mower once a week, the clippings are best left on, as the sun quickly shrivels them up, so that they never appear unsightly; but if mowing is delayed two or three weeks, then the grass must be raked off.

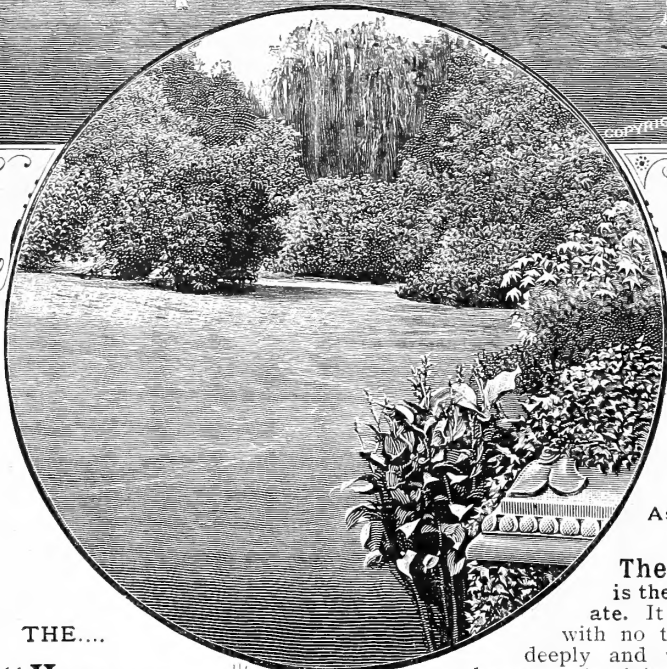
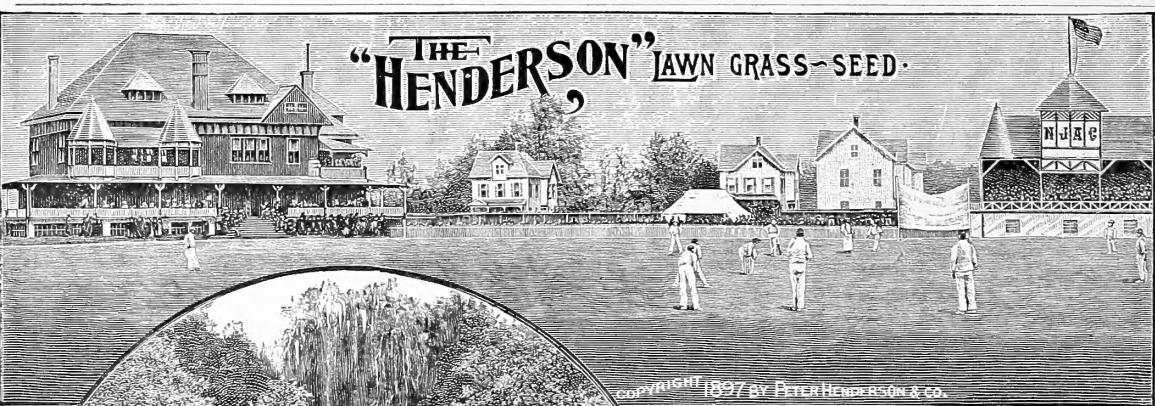
It sometimes happens that *the soil* contains seeds of perennial weeds; and such seeds are rarely found in the grass seed, such as dandelion, dock or thistles, which seriously interfere with the beauty of the lawn. When this occurs, there is no other remedy than the slow process of cutting them out with the knife or spud. Crab grass, known also as five-finger grass, and summer grass, is one of the commonest pests to contend with, and is especially troublesome in dry seasons. It is, however, only an annual coming up from seed each year. A mowing machine will not cut off all the seed stems, for some grow along the ground and bend before the mowing machine, and the best plan is to loosen it up with a rake and use the scythe a few times, cutting both ways so as to get all the seeding stems. Lawn grass seed should be sown thickly on these spots, and the lawn heavily fertilized in Spring. The crab grass seed does not usually germinate until warm weather, and if there is a good healthy turf at that time the seed is less likely to germinate. We therefore advise so as to induce a good healthy growth that when cutting the grass during May, the lawn mower be set high so that the grass will not be cut too short.

**Rolling.** The benefit derived from using a roller on the lawn, especially in the spring, is not fully understood. The action of freezing and thawing causes the ground to heave, and if it is not firmly pressed back with a roller before hot weather, the grass is apt to be killed or injured, leaving the lawn full of bare spots. For use on the lawn always take a "two or three section" roller, as they can be turned without injuring the grass. A 300 lb. roller is about as heavy as one man can pull, though a 400 lb. will be better if you have two persons to operate it.

**Renovating.** To renovate lawns that have become worn out by neglect or other causes, and where it is not convenient or desirable to renew by plowing up, they may be greatly benefited by running a light harrow over, if the surface is large, or by a sharp steel rake for smaller areas, after stirring the surface by such means judiciously, so as not to hurt too severely the roots. Lawn grass should be sown over the surface after harrowing or raking in about half the quantity advised for new lawns. After sowing the surface should be harrowed or raked over, and firmly rolled or beaten down, but if spurious grass or other weeds have got possession of the lawn, then this way of renovation would not be satisfactory, and it had better be plowed under and sown afresh, in the manner already given for the formation of the lawn.

**IF PEOPLE ONLY KNEW** how comparatively easy it is to make a lawn with **THE "HENDERSON" LAWN GRASS SEED,** the days of using sod would soon be over. See pages 2 to 5

# "THE HENDERSON" LAWN GRASS SEED.



## THE "HENDERSON" LAWN GRASS SEED

Is the Best for our American Climate.

With it you can make . . .

- LAWN, GRASS PLOTS,
- CRICKET GROUNDS,
- TENNIS COURTS, ETC.,

As Soft as Velvet and as Green as Emerald all Summer Long.

The "HENDERSON" LAWN GRASS SEED is the best Lawn Grass Seed for our American climate. It will form a close thick turf in a few weeks' time, with no tendency to stool or grow in clumps. It roots deeply and withstands severe droughts without turning brown, maintaining its beautiful deep green color throughout the season. We have made the formation of permanent lawns a study for years, and The Finest Lawns in this Country To-day were obtained by using The "Henderson" Lawn Grass Seed, which is composed of various grasses that grow and flourish during different months of the year, so that a rich, deep green, velvety lawn, is constantly maintained, rivaling the famous lawns of Old England.

The beautiful lawns at the World's Fair in Chicago were produced in six weeks' time with the "Henderson" Lawn Grass Seed. Not one of the charming features of the Exposition was so universally admired as our "setting of emerald velvet," which, notwithstanding the long continued drought of the summer, *retained its verdure throughout the entire season.* Besides being the only lawn grass seed granted a medal, we exhibited the separate grasses used in the mixture, and received **Seven Awards** for superior quality and purity of samples.

THE "HENDERSON" LAWN GRASS SEED is, relatively speaking, the cheapest seed offered, because, while the lawn grass mixtures of other seedsmen will not average over 14 lbs. to the bushel, this weighs from 20 to 21 lbs. per measured bushel.

If people only knew how comparatively easy it is to make a lawn with the "Henderson" Lawn Grass Seed, the days of using sod, with all the attendant expense, would soon be over.

### THE QUANTITY REQUIRED.

(We furnish it in large or small quantities to suit the pretentious lawn or the modest dooryard plot.)

The quantity required for making new lawns is 5 bushels per acre, or for renovating old lawns, 1 to 2 bushels. For a plot 15 x 20, or 300 square feet, 1 quart is required for new, or 1 pint for renovating old lawns.

PRICES, per quart, 25c.; peck, \$1.50; bushel (20 lbs.), \$5.00.

(If by mail, add at the rate of 5c. per quart for postage.)

THE...

## "HENDERSON" LAWN GRASS SEED

.. THE ..

PUREST  
CLEANEST  
HEAVIEST  
Lawn Grass Seed  
Ever Offered.

•••••

Weights 20 lbs. to measured bushel, while other Lawn Grass Mixtures do not average over 14 lbs. to the bushel.

NO WEED SEEDS  
IN THE

"Henderson"  
Lawn Grass Seed.



As at the Statue of Liberty.



**THE Rich Green Carpet**

**Surrounding the Famous STATUE OF LIBERTY.**

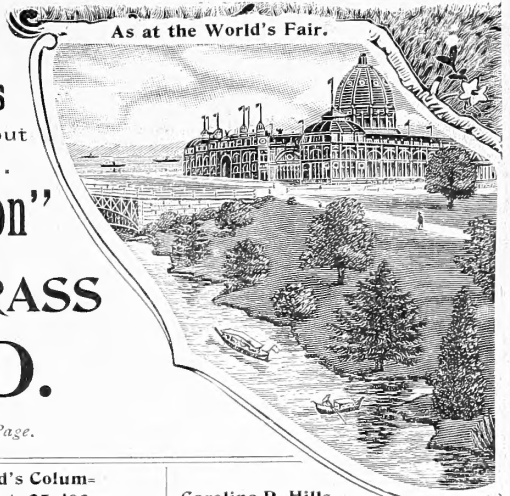
On Liberty Island, New York Bay, was our contribution toward the erection of this Great Gift of France. We produced the beautiful Emerald Setting for it with the "Henderson" Lawn Grass Seed.



From Peter Frayne, Exeter, Ont.

"I do not consider I would be doing you justice if I did not thank you for the Lawn Grass Seed that I got from you last spring, and in doing so I must say it is the best seed I ever saw. I was more than surprised to see the very nice lawn that it produced. In six or eight weeks from the time it was sown it covered the ground so thick that every person who saw it thought that I must have had my ground sodded, but it far surpasses any sodding I ever saw, or any seeding. This is not only my testimony, but the opinion of every one who has seen it."

As at the World's Fair.



A FEW OF THOUSANDS  
Of reports about  
.. THE ..  
**"Henderson"**  
**LAWN GRASS SEED.**

Offered on Opposite Page.

Office of Director of Works, World's Columbian Exposition, Chicago, Ill., Oct. 25, '93.

The "Henderson" Lawn Grass Seed was used on the World's Fair grounds, and it affords me pleasure to say that the quality of the seed was first-class in every respect, forming lawns rapidly, which stood the droughts of the past summer, making a thick sod and is more durable than any other we have used. R. ULRICH, Sup't. Landscape Dep't.

Carolina P. Hills, Rochester Cottage, Mass.

"My lawn has been sown with your grass seed and strewn with your fertilizer, and there is no neater lawn on the island. My last purchase of your lawn grass seed was for a small place I own, where the soil is poor and sandy. It was sown early in the spring and has proved to be wonderfully adapted to so barren a spot, making a rapid growth, although we are subject here to severe drought and have to depend greatly on sprinkling and watering."



From Messrs. E. R. Ulrich & Son, Springfield, Ill., Feb. 20th, 1897.

"Please send us a sample peck of the "Henderson" Lawn Grass Seed, same as we saw used on the World's Fair Grounds, and which the writer saw and which was certainly the most beautiful lawn he ever saw."



From C. C. Rose, 3806 No. 22d St., Omaha, Neb., June 12th, 1896.

"The grass seed I ordered of you in April was sown about May 1st, and I am surprised and delighted at the results in five weeks. I have the finest grass to be seen in this city. It should have been mown already. I did not have quite enough so bought some seed here but it has not given satisfaction so will sow some more of yours where the other has not come up."

The only Lawns  
**GRANTED A MEDAL**  
at the **World's Fair** in Chicago,  
were those sown with the...  
**"HENDERSON"**  
**LAWN = GRASS = SEED.**  
...and besides, we received  
**SEVEN AWARDS OF MERIT,**  
For superior quality and  
purity of sample of the  
**Individual Grasses**  
we use in it.

Office of Director-General, World's Columbian Exposition, Chicago, Ill., Dec. 1, '93.

Your lawns at the World's Columbian Exposition were as nearly perfect as lawns could be made. The sod was dense, containing no extraneous weeds or grass, and the color from every point viewed was uniform in appearance. They were in excellent condition during the entire period of the World's Fair.

J. M. SAMUELS,  
Chief, Dep't of Horticulture.

PRICES OF  
The "Henderson"  
**LAWN GRASS SEED.**

25c. per quart.  
\$1.50 per peck.  
\$5.00 per bushel.

(If by mail, add 5c.  
per quart for  
postage.)

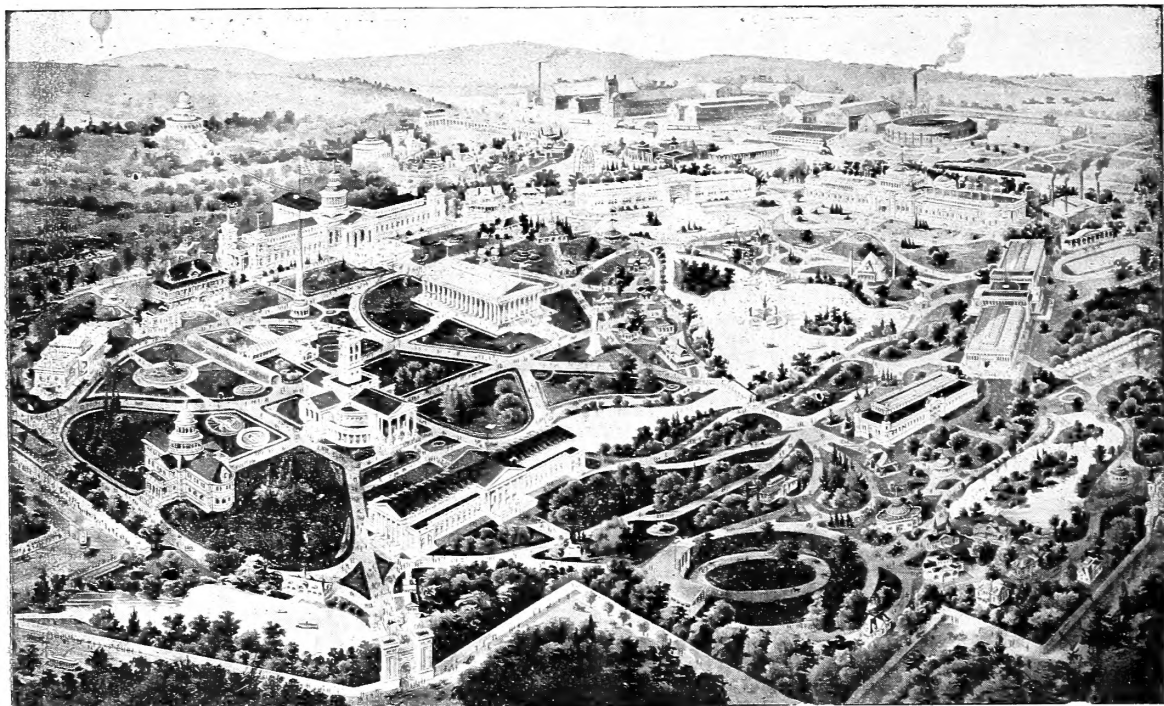


For Cemeteries and Parks.



For Private Lawns.

**IF PEOPLE ONLY KNEW** how comparatively easy it is to make a lawn with **THE HENDERSON LAWN GRASS SEED,** the days of using sod would soon be over. See page 2.



THESE  
BEAUTIFUL  
**LAWNS**

Were Produced

**AT THE TENNESSEE-CENTENNIAL-EXPOSITION**

By Sowing...

-- THE --  
**"HENDERSON"**  
**LAWN SEED**

*Offered on Page 2.*

JOHN W. THOMAS, PRESIDENT.  
V. L. KIRKMAN, VICE PRESIDENT.  
W. A. HENDERSON, KNOXVILLE, 2d VICE PRESIDENT.

E. C. LEWIS, DIRECTOR GENERAL.  
W. P. TANNER, TREASURER.  
S. A. CHAMPION, GENERAL COUNSEL.

JNO. OVERTON JR., MEMPHIS, 3d VICE PRESIDENT.  
A. W. WILLS, COMMISSIONER GENERAL.  
FRANK GOODMAN, AUDITOR.



# Tennessee Centennial

OPENS MAY 1, 1897, AND  
CONTINUES SIX MONTHS

Nashville, Tennessee, Feb. 25, 1897.

Peter Henderson & Co.,  
35 Cortlandt St.,  
N. Y.

Gentlemen:-  
I have sent you under separate cover photograph showing  
bird's eye view of Tennessee Centennial Exposition grounds on  
which we have used exclusively the "Henderson" Lawn Grass Seed.  
It was sown last September and is now up in good shape making an  
elegant lawn for the Exposition.

Yours truly,

*E. C. Lewis*  
Director General

# Henderson's . . . Lawn Grass Mixtures

FOR SPECIAL SITUATIONS.

**Terraces and Embankments, Shady Situations, Golf Links, Hot, Dry Sections.**

**T**HE Special Mixtures here offered have been prepared with a view to overcoming difficulties that have hitherto existed in getting grass to grow on steep slopes, in the shade, etc., where the grasses ordinarily used would not succeed.

The grasses we use in these mixtures are peculiarly adapted for the purpose, and will thrive in the situations and under the conditions for which they have been prepared.



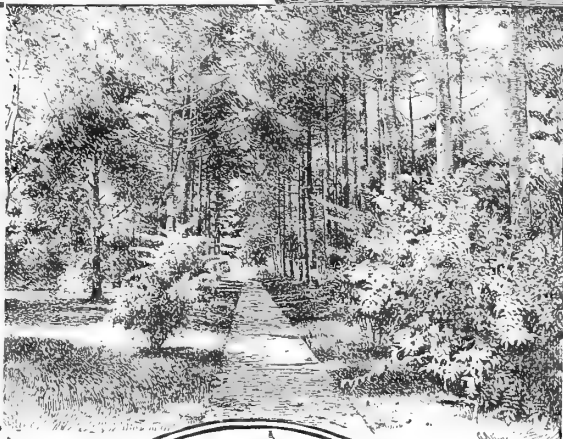
## Henderson's "SHADY NOOK" Lawn Grass.

On nearly all lawns there are unsightly bare spots under the shade of trees, which have baffled all efforts to get into grass, but with this mixture there need be no further difficulty.

It is a combination of fine, dwarf growing, ever-green varieties, which in their wild or natural state are found growing in the woods or other sheltered and shaded spots.

**NOTE.**—If your ground is "sour" or "mossy" special preparation will be needed—see page 2.

Price, 35c. qt., \$2.00 peck, \$7.00 bushel.  
(If by mail, add at the rate of 5c. per quart for postage.)



## Henderson's "SUNNY SOUTH" Lawn Grass.

Is specially prepared for the South or for very dry sections, and contains all the best grasses that are by nature adapted for hot, dry situations. In the Southern States, Bermuda grass is frequently used, but it remains green only in the summer months, turning brown in winter, while most of the Northern grasses perish in the heats and droughts of summer.

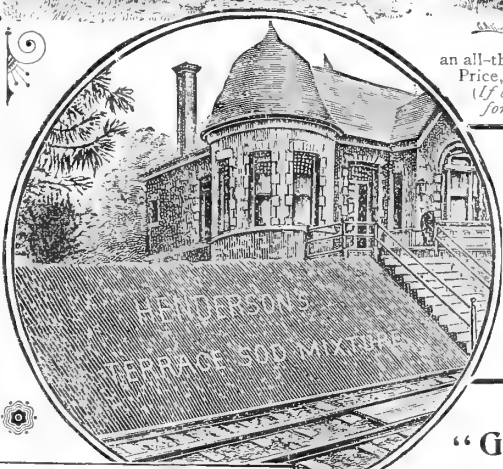
By using this mixture and with some care and attention, an all-the-year round lawn can be maintained.

Price, 35c. quart, \$2.00 peck, \$7.00 bushel.  
(If by mail add at the rate of 5c. per qt. for postage.)

## Henderson's "TERRACE SOD" Lawn Grass.

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils and at the same time produce a rich velvety green turf throughout the season. There need be no fear of introducing coarse grasses into your lawn by sowing this mixture, for though strong rooted, the grasses are equally as fine as those used in the "Henderson" mixture.

Price, 35c. qt., \$2.00 peck, \$7.00 bushel.  
(If by mail, add at the rate of 5c. per quart for postage.)



Besides the Lawn Mixtures offered on this page, we shall at all times be pleased to make up mixtures for special requirements and situations.

We have made grasses a special study and invite correspondence on the subject, and are always glad to advise, so far as lies in our power, how to secure the desired results and the best methods of overcoming weeds and coarse grasses in lawns.

## Henderson's "GOLF LINK" Grass Seed.

The bracing game of Golf has now become so deservedly popular here, that many inquiries have reached us lately for a mixture of grasses that will produce a sward equal to those of the "GOLF LINKS" of Scotland.

Last summer one of our representatives visited some of these Scotch Links, and after minutely examining them, found that the close-cut sod of the Scotch "putting greens" can be duplicated here by using certain grasses adapted by nature to grow on light soils and sandy situations.

While the outlying portions of the "Links" can be seeded with less expensive grasses the "putting greens" for about 20 yards around the "holes" must be sown with the very finest grasses.

**For Putting Greens**, we can supply a special mixture of grasses. Price, 30 cents per quart \$1.75 per peck. \$6.00 per bushel. (If by mail, add at the rate of 5c. per quart for postage.)

**For the Outlying Grounds or Links proper**, we can supply a suitable mixture of grasses. Price, \$2.50 per bushel, 20 bushels and upward, \$2.25 per bushel.

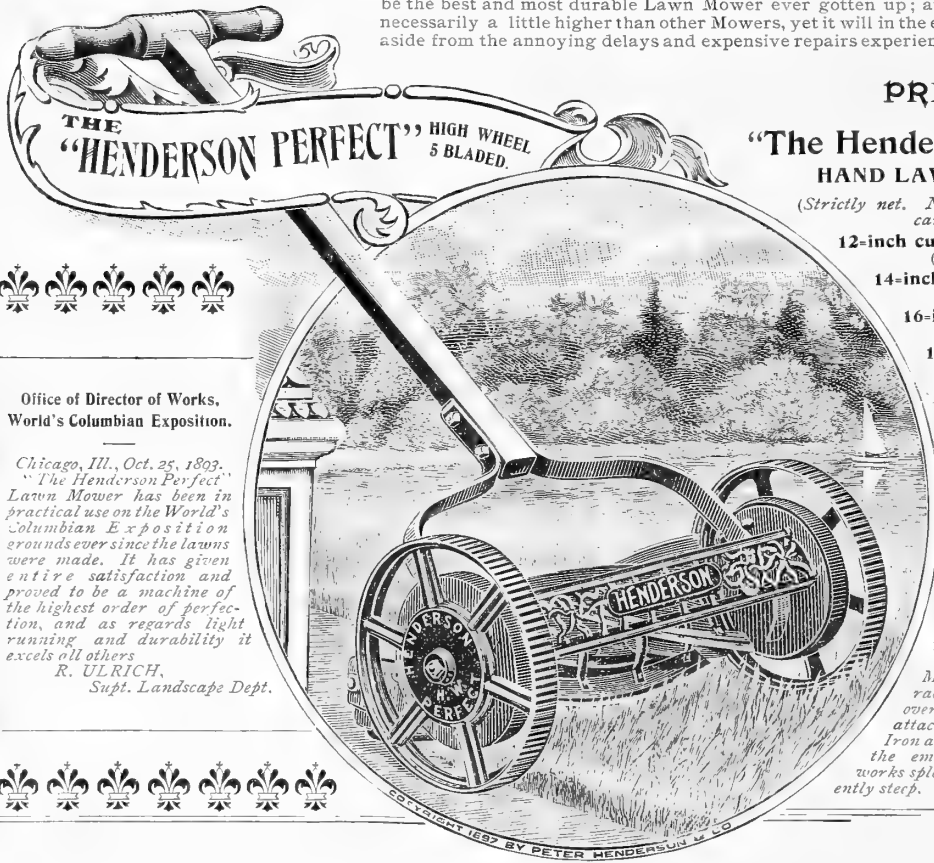


# The "Henderson Perfect" Lawn Mower.

INCOMPARABLY THE SUPERIOR OF ANY MOWER ON THE MARKET.

THE sharp competition in Lawn Mowers for the past three years has so reduced prices that, in consequence, the quality of both material and workmanship has deteriorated to such an extent that our customers tell us that it is almost impossible to get a Mower that will cut satisfactorily for any length of time, and the many requests for a high-class Mower have induced us to manufacture an entirely new Lawn Mower. "THE HENDERSON PERFECT," and we claim for it—and guarantee the claim—that it will prove the most durable of any side-wheel Mower ever manufactured, being made of best quality new iron, patent journal boxes, and the knives of high-grade steel. It will keep sharp, cut well, and last three or four times as long as a cheap Mower. There are also many details of construction essentially different from any other Mower, and which could not be afforded on low-priced machines, simply made to sell. For instance, the bottom knife bar is stationary, making the frame perfectly rigid; the revolving cutter works on patent hangers, the cutter being adjusted to the stationary knife. A positive triple ratchet in each end is a grand improvement, giving great strength, and will last as long as the Mower. The gears do not move when the machine is pulled back, thereby saving much friction and wear, and a patent terrace mowing arrangement is a very effective and a valuable addition. The wheels are high (8 inches), enabling the Mower to cut high grass with ease. It is very light-running, noiseless, and leaves the surface of the lawn as smooth as velvet.

We reiterate, that "THE HENDERSON PERFECT" has been made, regardless of expense, to be the best and most durable Lawn Mower ever gotten up; and, although the price is necessarily a little higher than other Mowers, yet it will in the end prove much cheaper, aside from the annoying delays and expensive repairs experienced with cheap Mowers.



## PRICES OF "The Henderson Perfect" HAND LAWN MOWER.

(Strictly net. No charge for packing or cartage.)

- 12-inch cut, . . . . . \$6.00  
(List price, \$15.)
- 14-inch cut, . . . . . \$7.00  
(List price, \$17.)
- 16-inch cut, . . . . . \$8.00  
(List price, \$19.)
- 18-inch cut, . . . . . \$9.00  
(List price, \$21.)
- 20-inch cut, . . . . . \$10.00  
(List price, \$23.)

## TERRACE Mowing Attachment

A special "Terrace Iron" can be furnished for 50c. extra.

Remove the handle of the Mower and hook the "Terrace Iron" on the lugs over the back wooden roller; attach a rope to the Terrace Iron and let the mower run down the embankment. The mower works splendidly on terrace sufficiently steep.

Office of Director of Works,  
World's Columbian Exposition.

Chicago, Ill., Oct. 25, 1893.  
"The Henderson Perfect" Lawn Mower has been in practical use on the World's Columbian Exposition grounds ever since the lawns were made. It has given entire satisfaction and proved to be a machine of the highest order of perfection, and as regards light running and durability it excels all others.  
R. ULRICH,  
Supt. Landscape Dept.

# The Henderson Perfect High Wheel 5 Bladed Lawn Mower.

THE KING OF ALL LAWN MOWERS.

THE mechanism and high quality of material are the same as in the "Henderson Perfect," offered above, with the added advantages gained by drive wheels ten inches in diameter and a six inch five-bladed wiper, thus making the finest cutting Mower in the world, leaving absolutely no irregularities on the surface of the lawn, which appears as smooth as if shaved. Besides, it is the strongest, lightest-draft Mower on the market. For high-class lawns and well-kept parks the Henderson High-Wheel Five-Bladed Lawn Mower is unequalled.

## PRICES, of the Henderson Perfect High Wheel 5-bladed Lawn Mower.

(Strictly net, no charge for Packing or Cartage.):

- 14-inch cut, \$9.00  
(List price, \$21.00)
- 16-inch cut, \$10.00  
(List price, \$23.00)
- 18-inch cut, \$11.00  
(List price, \$25.00)
- 20-inch cut, \$12.00  
(List price, \$27.00)



## The "Coldwell" Improved Horse Lawn Mower.

**W**E guarantee this to be the best and most perfect Horse Lawn Mower manufactured. It is used exclusively by the Government and on the largest public and private lawns in the country. They are furnished with shafts, seat and side draft attachment, which keeps the horse on the cut grass only. Each Mower warranted to give complete satisfaction. The new attachment for instantly raising the knives when traveling along roads and stony places is very convenient. **Low Prices** (strictly net). No charge for packing or cartage.

### The "Pony" Lawn Mower.

A small size (25 inch cut) Lawn Mower for very hilly lawns and lawns full of trees and shrubs. It has no seat. The pony is hitched to a single-tree attached to the Mower by a chain allowing the pony to turn aside easily.

Our net price for this is Or with shafts and side draft.

**\$37.50**

**\$45.00**

(List price, \$65.)

(List price, \$75.)

**30-inch cut, \$60.**

(List price, \$110.)

**35-inch cut, \$75.**

(List price, \$135.)

**40-inch cut, \$90.**

(List price, \$170.)

**HORSE BOOTS** ...TO PREVENT HORSES FROM SINKING IN DAMP OR SOFT GROUND. **\$9.00** per set of four.

## Henderson's "Chain-Roller."—Hand Border Mower.

**I**N addition to the usefulness of this Mower for regular lawn work it will perfectly cut the grass on borders, even though they are mere strips of sod only a few inches wide; between flower-beds and walks, where a side-wheel mower would have one wheel off the border and down, so the knives would cut into the earth.

The **Chain-Roller Mower** is strictly high-grade and should last for years. It is fitted with brass bushings, so the wear can be taken up; steel shafting and knives of the best quality steel. The bicycle chain, in place of gears, reduces the noise and friction, so that it is the lightest-running and simplest Roller Mower made. The **SELF-DUMPING GRASS CATCHER** is the best ever used.

### PRICES OF

HENDERSON'S "CHAIN-ROLLER" MOWER.

Strictly Net.

(No charge for packing or cartage.)

**12**-inch cut, **\$9.00**

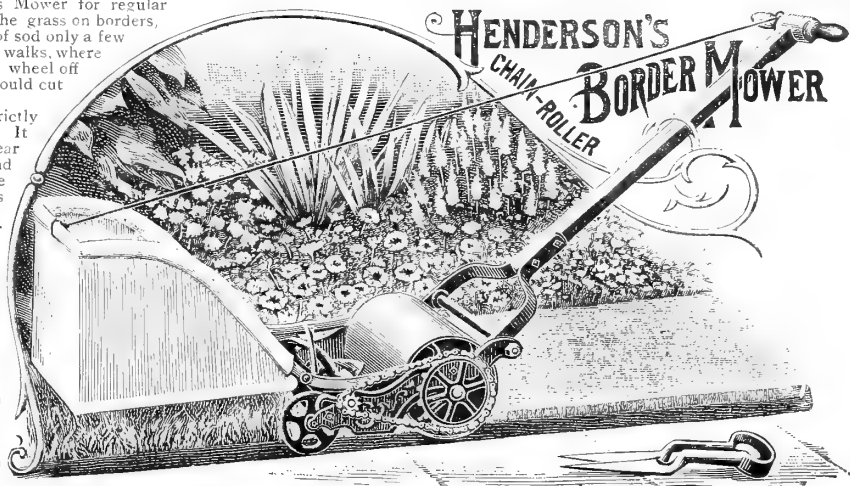
or with grass catcher, **\$10.25**

**14**-inch cut, **\$10.00**

or with grass catcher, **\$11.50**

**16**-inch cut, **\$11.00**

or with grass catcher, **\$12.75** COPYRIGHT 1897 BY PETER HENDERSON & CO.

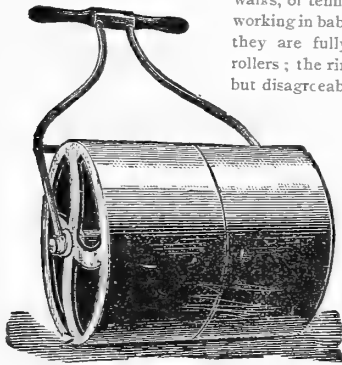


# HENDERSON'S LAWN ROLLERS.

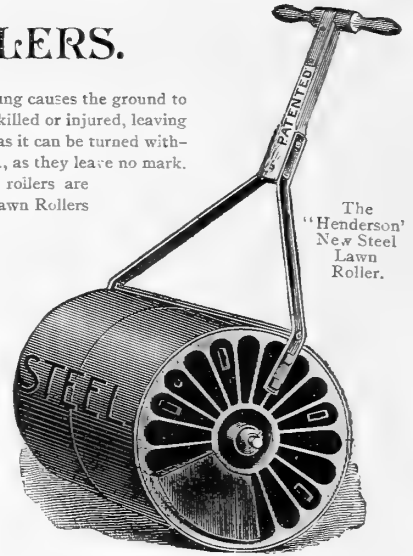
The benefit derived from using a roller on the lawn is inestimable. Freezing and thawing causes the ground to heave, and if not firmly pressed back with a roller before hot weather, the grass is apt to be killed or injured, leaving the lawn full of bare spots. For use on the lawn, a "Two Section" roller is usually chosen, as it can be turned without injuring the grass. "One Section" rollers will be preferable for walks, tennis courts, etc., as they leave no mark. About 300 pounds is the weight chosen for one man power for lawns. The handles of our rollers are weighted so they always keep up from the ground, clean and out of the way. Our new Steel Lawn Rollers are the best, but if a cheaper roller is wanted, our "Cast Iron" will give good satisfaction.

## The "Henderson" <sup>NEW STEEL</sup> Lawn Rollers FOR HAND POWER.

As rolling is most effective when the soil is moist and pliable, our new steel rollers will be found far superior, as wet soil will not stick to steel as it does to the rough cast iron rollers; our new steel rollers are made of rolled steel, presenting a smooth surface that will not gather soil or grass. The sections fit closely, are perfectly round, and will do perfect work on lawns, walks, or tennis courts. The axles are of polished steel shafting, working in babbitted lathe-bored journal boxes; and in consequence they are fully one-half easier to work than the old cast iron rollers; the rims are cushioned, which not only prevents breakage but disagreeable noise; the handles are counterbalanced to stand erect when not in use.



Cast Iron Lawn Roller.



The "Henderson" New Steel Lawn Roller.

### PRICES of The "Henderson" New Steel Lawn Rollers.

No.	R.	Section;	Length of Roller,	Diameter,	Weight,	PRICE.
No. R.	1	Section;	Length of Roller, 20 inches;	Diameter, 20 inches;	Weight, 260 lbs....	\$10 50
" S.	2	" "	" 20 "	" 20 "	" 275 lbs....	12 00
" T.	1	" "	" 24 "	" 24 "	" 375 lbs....	13 50
" V.	2	" "	" 24 "	" 24 "	" 300 lbs....	12 75
" X.	2	" "	" 24 "	" 24 "	" 400 lbs....	15 75

### Cast Iron Lawn Rollers.

No.	D.	Section;	Length of Roller,	Diameter,	Weight,	PRICE.
No. D.	2	Section;	Length of Roller, 24 inches;	Diameter, 20 inches;	Weight, 300 lbs....	\$9 00
" E.	3	" "	" 36 "	" 20 "	" 450 lbs....	13 50

# The "Henderson" Steel Horse Lawn Rollers.

*Especially Designed to Smooth and keep in Perfection.*

**LAWNS, DRIVES, WALKS,**

AND

**GROUNDS**

OF

**Golf, Tennis, Athletic and Country Clubs, and  
Gentlemen's Places.**

The cylinders are of rolled steel, supported by hard wood felloes. The axles of machinery steel, polished work in lathe-bored journals lined with antifriction metal, the result is a perfectly even surface and little or no noise.

The Attachment for Sowing is exceedingly useful. To maintain lawns in perfection they should have a top dressing annually, and if necessary, bare and thin spots resown with seed. You can accomplish this without extra trouble at the same time the rolling is done with this attachment. The seed or fertilizer, which must be dry and powdered like bone meal or lawn enricher, is easily sown and rolled down at one operation, with no opportunity of bunching, pocketing or blowing away, insuring a perfectly even and beautiful lawn. This attachment, if wanted, should be ordered with the roller, so it can be fitted at the factory.

These ROLLERS ARE SUPPLIED WITH EITHER SHAFTS OR POLE, as desired. If wanted with both pole and shafts add \$5.00 to the prices.

**ALL CAN BE WEIGHTED UP TO THREE TIMES THE WEIGHT OF THE ROLLER.**

Number.	Section.	Track.	Diameter.	Average Weight.	Price Rollers Alone.	Price with Sowing Attachment.
2-L.	2	4 Feet.	24 Inches.	500 Pounds.	\$25 00	\$34 00
1-L.	2	4 Feet 8 Inches.	30 "	600 "	40 00	49 50
1-L.	3	5 Feet.	24 "	550 "	30 00	40 00
3 L.	3	6 Feet.	24 "	600 "	35 00	45 00



Supplied with or without attachment for sowing fertilizers or seed.



# HENDERSON'S "MODEL" HAND LAWN SWEEPER.

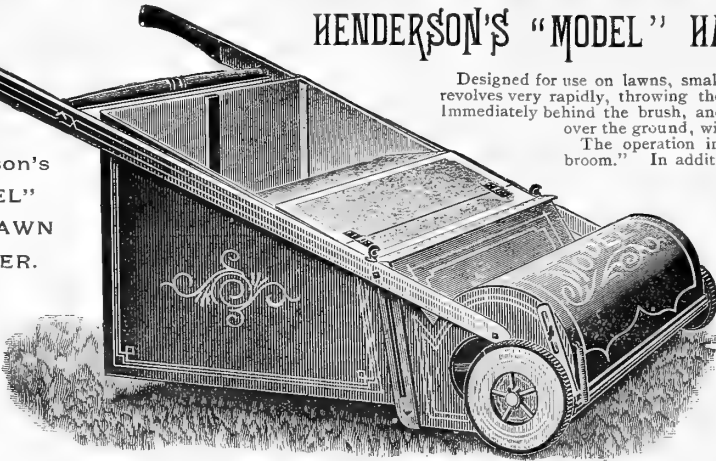
Designed for use on lawns, small parks, tennis courts, etc. The brush revolves very rapidly, throwing the litter backward from its under surface. Immediately behind the brush, and parallel with it, a thin shoe passes along over the ground, with its upper surface inclined.

The operation involves the principle of "dust-pan and broom." In addition to this, the revolving brush creates a strong current of air, that blows the litter back into the rear of the hopper. If sticks, stones or leaves are encountered, the shoe does not allow them to pass under it, but provides a passage over it into the hopper.

The revolving brush is pressed against the ground, allowing the machine to be used on clipped and unclipped lawns, over rough or smooth ground. The machine does nice, clean work. It does not tear the sod nor dig up the earth like a rake, but leaves the grass clean and velvety. The hopper can be dumped or taken out and emptied. It takes only a few minutes to go over a large lawn.

The machine weighs 28 lbs., is 25 inches wide, 21-inch brush. **Price, \$10.00.**

Henderson's  
"MODEL"  
HAND LAWN  
SWEEPER.

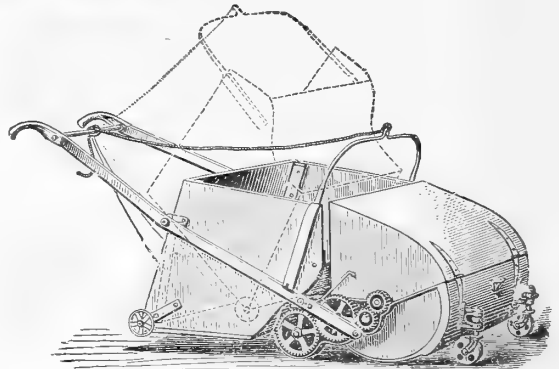


## PHILADELPHIA HORSE LAWN SWEEPER.

A revolving brush in front sweeps the sod clean and throws the sweepings backward into a large box in the rear. This box can be dumped without stopping. Sweeps 40 inches wide.

The sweeper gives you a perfect lawn as soon as the sweeping is finished instead of looking grey for several days owing to the withered cut grass.

If the sweeper and lawn mower are run in opposite directions, the lawn will be the same shade of color all over. **Price, \$70.00.**



HORSE LAWN SWEEPER—DRAFT ROD NOT SHOWN.

### The "Henderson" Lawn Grass Seed.

In large or small quantities, to suit the pretentious lawn or the modest door-yard plot. With it you can renovate old or make new

#### LAWN AND GRASS PLOTS

as soft as velvet and as green as emerald all summer long. (See page 2.)

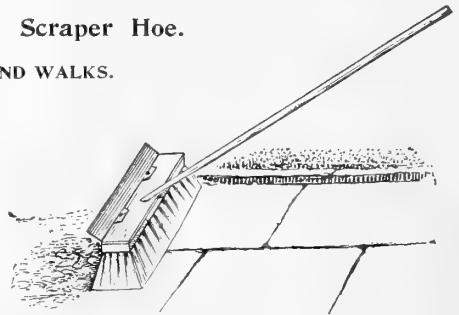
## PATENT PUSH BROOM

With adjustable Scraper Hoe.

FOR LAWNS AND WALKS.

This is the only Push Broom with a Scraper Hoe Attachment suitable for lawns, walks, stables, &c. It can be used to push, pull, chip or dig to the width of the entire broom and is unexcelled as an implement for removing snow and ice from walks. It has 5 rows of bass bristles, and is 16 inches wide.

Prices, \$1 00 each.



PATENT BRUSH BROOM.

## THE MEEKER SMOOTHING HARROW

For Seeding Lawns.

Splendid for seeding down lawns. It pulverizes and grades, leaving the ground in as fine a condition as could possibly be done by a hand rake. The frame is 6 ft. 8 in. x 6 ft. 1 in., with four sets of rollers having 58 disks, 8 inches in diameter, on them. On the two forward rollers the disks are 6 inches apart, and on the two rear rollers 3 inches apart. The disks on each set of rollers work between each other. The board in the centre is set at an angle, is adjusted up and down, and acts as a leveler.

**Price, with steel disks, 22.00.**



THE MEEKER STEEL DISK SMOOTHING HARROW.



The Henderson  
Grass Trimmer.  
For cutting under fences,  
shrubs, &c.

This implement cuts a swath 18 inches wide, and is very useful in trimming up, close to and under fences, shrubs, &c, where a lawn mower cannot go. It is also invaluable for cutting grass in small city plots when the area is too small for a lawn mower.

**Price, \$5.00.**

THE HENDERSON GRASS TRIMMER.



# Lawn Cleaning and Trimming Essentials.

## COMBINATION BORDER KNIFE AND SCUFFLE HOE.

A most useful implement for edging up walks and borders, for cutting and rolling turf, for cleaning walks from weeds. It can be instantly changed from an Edger to a Scuffle Hoe. (See cut.) Price, with 6½ inch blade, 60c. each; 9 inch blade, 75c.

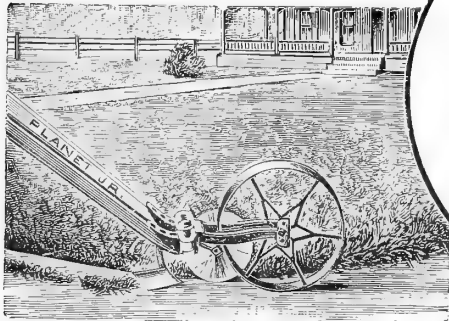
## REVOLVING VERGE CUTTER.

A splendid tool for trimming the turf around the edges of walks and flower beds. A revolving knife enables the work to be done with rapidity.

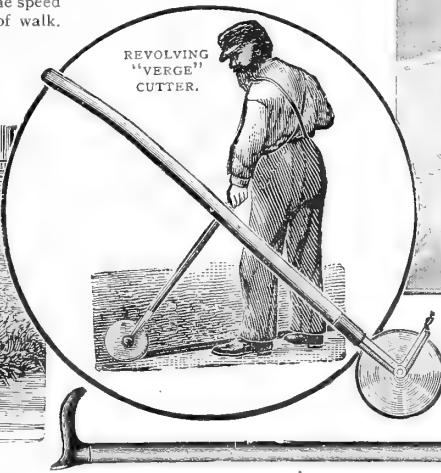
To operate: The forward hand—holding the tool—should rest against the forward leg just above the knee, and the knee should assist in pushing the trimmer (as is sometimes done in shoveling earth), this prevents the knife from cutting in too deep. (See cut.) Price, \$1.00.

## THE "PLANET JR." LAWN AND TURF EDGER.

This little tool trims the turf around the edges of the flower beds, walks, roads, etc., the revolving cutter does perfect work, either on a curved or straight border, edging accurately at just the correct angle, and at the speed of a mile an hour, while the hoe cleans the bottom of walk. The hoe can be removed if desired. It is invaluable in giving a finished appearance to the lawn. (See cut.) Price, complete, \$5.00, weight 26 lbs.



THE "PLANET JR." LAWN AND TURF EDGER.



REVOLVING "VERGE" CUTTER.



Combination Border Knife and Scuffle Hoe.

**Henderson's Cane Weeding Gouge.** A very useful and convenient tool for cutting weeds out of lawns without marring the surface. Price, 50c. each.



HENDERSON'S CANE WEEDING GOUGE.

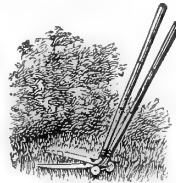
## MISCELLANEOUS LAWN TOOLS.



**Grass or Turf Edging Knife.** For trimming the borders of walks, etc. Price, with handle, 50c. each.



**Grass Edging or Border Shears.** For trimming the overhanging grass around the edges of walks, etc. Price, with 9 inch blade, \$2.25, or with wheel, \$2.75.



**Lawn Shears.** For cutting grass under shrubs, fences, etc. Price, with two wheels, 9 inch blades, \$2.50.



**Weed Cutter.** A chisel-blade with foot-rest so it can be pressed, cutting off roots of weeds without marring the lawn. Price 50c.



**"Curved Handle" Grass or Sheep Shears.** Extra long, 7½ in. blades. The handles are curved to prevent rubbing the knuckles on the ground. Price, \$1.00.



Grass Hook.

**Grass Hooks (Sickles).** STANDARD QUALITY, 30c. each. EXTRA QUALITY, steel that will hold an edge. Price, 50c. each.



**Lawn Scythe.** Broad blades, 32, 34, 36 and 38 in. Price, \$1.25. **Scythe Snaths or Handles.** With patent fastening. Price, each 75c.



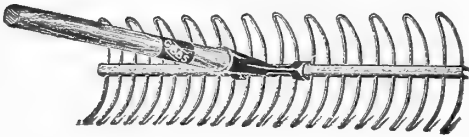
**Scythe Stones.** Best quality. ROUND OHIO, 10c. each; FLAT OHIO, 5c.



**Scythe Rifles.** Triple emery coated, 10c.

# LAWN RAKES.

## THE "REVERSIBLE" ALL STEEL LAWN RAKE.



REVERSIBLE LAWN RAKE.

All steel, heavily tinned, and practically indestructible. Handles of polished ash. This rake runs smoothly and will not tear the sod, nor clog. The two styles of teeth form a perfect tool for cleaning lawns and walks. The arched teeth being used for leaves and litter, and the opposite side for fine cut grass. The uppermost teeth always act as a guard to prevent the rakings from falling over back. Twenty-four teeth closely set in a 24 inch head. **Price, 50c. each.**

## THE AUTOMATIC LAWN RAKE.



AUTOMATIC SELF CLEANING.

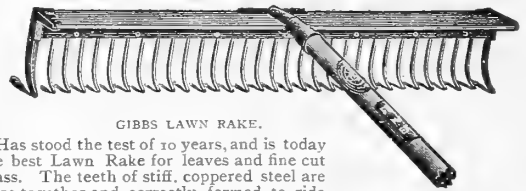
The "Automatic" is the only rake that will clean itself from grass without any annoyance to the operator. It is light and easily handled. A backward motion of the rake from the operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with fingers. The teeth are made of the best of hickory. **Price, 26 teeth, 85c. each.**

## COMMON WOOD LAWN RAKE.

Three bow, selected wood, 22 teeth ... **Price, 35c. each, \$3.50 dozen.**

## THE GIBBS LAWN RAKE.

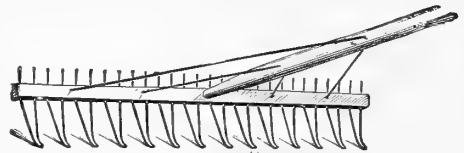
The only Lawn Rake endorsed, purchased for and used on the World's Fair Lawns.



GIBBS LAWN RAKE.

Has stood the test of 10 years, and is today the best Lawn Rake for leaves and fine cut grass. The teeth of stiff, coppered steel are close together and correctly formed to ride over the sod without catching and tearing it up. It does not clog up, and a backward motion without raising the rake cleans all of the teeth perfectly. The closed hood prevents grass, etc., from falling over back, so that at one passage of the rake it does perfect and clean work. Twenty-four inch head, 32 teeth. **Price, 75c. each.**

## LAWN AND SCARIFYING RAKE.



LAWN AND SCARIFYING RAKE.

This rake is designed to cultivate as well as to free the lawn from cut grass and leaves. Lawns where it has been used during the past summer have shown its good qualities by keeping green and fresh. It is also well adapted for use on fine gravel walks. **Price, 50c. each.**

# The Lawn and Garden Hand-Cart.

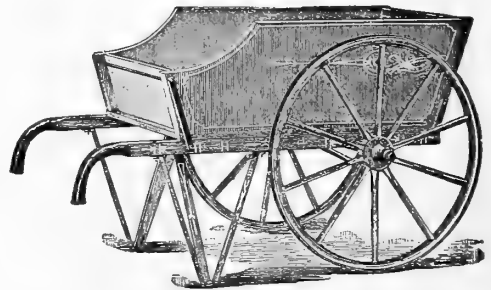
The best and most convenient cart ever offered. Is far superior to any wheelbarrow for all kinds of work.

Having two wheels, it is self-supporting when in motion, and the operator does not have to hold it from turning over side wise.

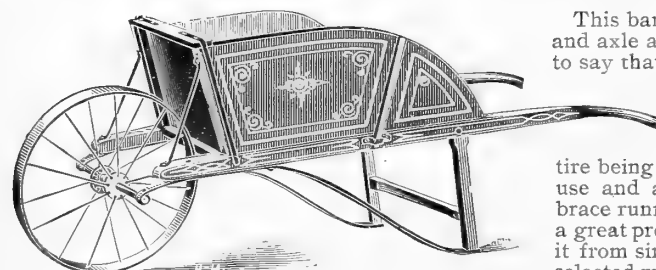
It has large wheels, 32 inches in diameter, which are placed well under the box, so that the wheels carry nearly all of the load instead of the man carrying about one-half of it. Box is 3 feet 10 inches long, 21 inches wide inside bottom, and 15 inches deep.

The wheels being high, it can be handled in soft ground or mud and pushed or pulled over obstructions.

**PRICE, \$8.00.**



## THE "HENDERSON" BARROW.



This barrow is light, strong and durable, has a steel wheel and axle and oil-tempered springs, and we do not hesitate to say that it is the best barrow on the market and as well painted, striped and varnished as a buggy.

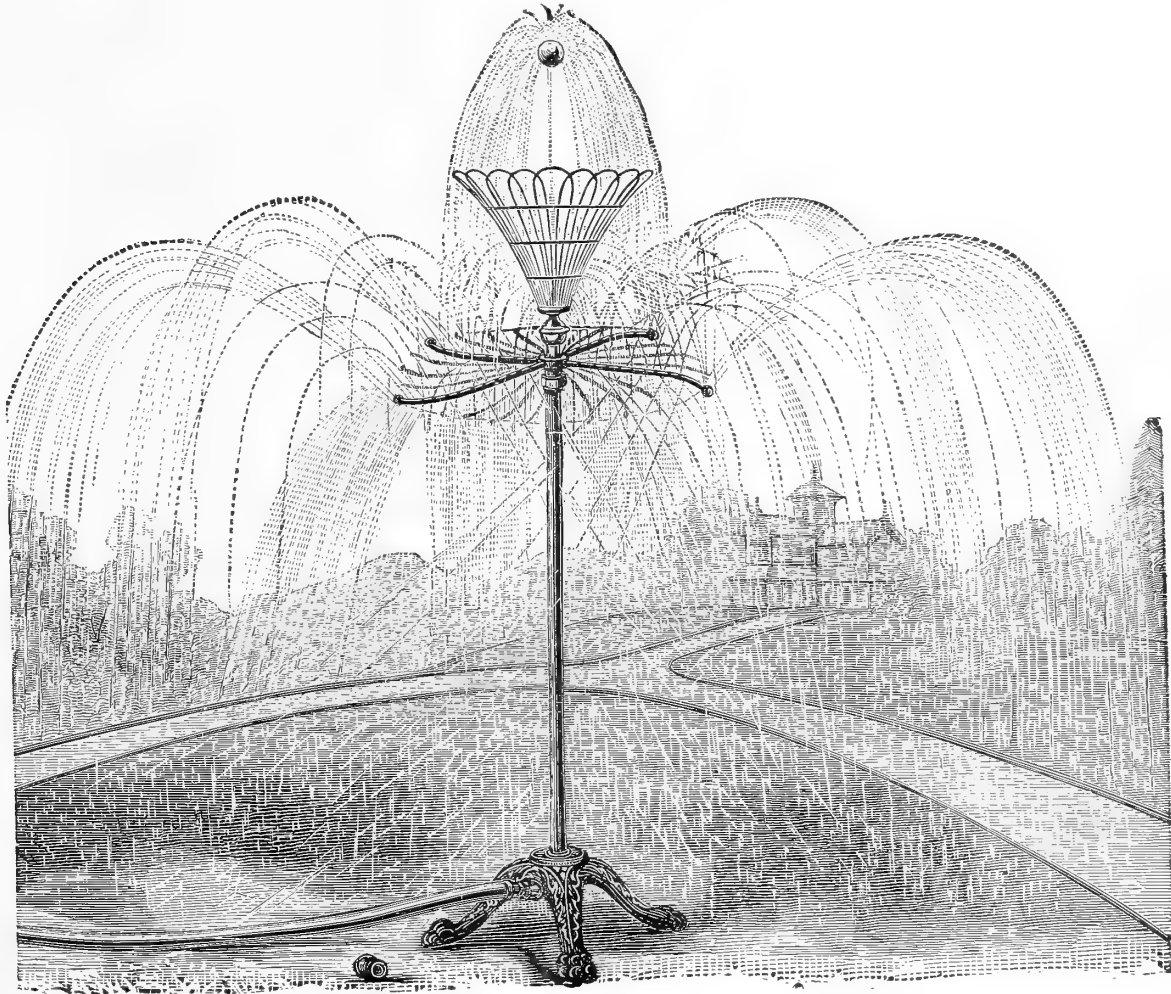
While its carrying capacity is from 300 to 500 pounds, its weight is less than 40 pounds; fully warranted to stand the roughest usage. The tire being wide makes it more desirable for lawn and garden use and a stronger wheel for the pavements. The shoe brace running from the rear of the body to the foot of leg is a great protection to the leg against breakage, and prevents it from sinking into soft ground. The barrow is made of selected material, and will outlast several of the cheaper, heavy, clumsy barrows. Weight, 39 lbs.; width, rear, 24 inches; width, front, 19 inches; diameter of wheel, 20 inches; width of tire 1 3/4 inches. **Price, \$5.00.**

heavy, clumsy barrows. Weight, 39 lbs.; width, rear, 24 inches; width, front, 19 inches; diameter of wheel, 20 inches; width of tire 1 3/4 inches. **Price, \$5.00.**

# LAWN SPRINKLERS.

A good lawn sprinkler is a necessary adjunct to all well kept lawns and grass plots; the water is distributed finely and evenly and by leaving a sprinkler in one position long enough the grass can be thoroughly saturated, thereby insuring a luxuriant, fresh green sward during the hottest summer drought. All of the sprinklers that we catalogue work satisfactorily with a water pressure of 30 lbs., excepting the **Henderson 8 Arm Lawn Sprinkler**, which should have a pressure of not less than 40 lbs. The "**Water Witch**" and "**Niagara**" sprinklers work under a very low pressure better than any other sprinklers we know of.

*We are frequently asked if a tank or pond of water at a certain elevation will work a lawn sprinkler. The following rule is applicable to all such cases, viz: Water at every foot of elevation gives half a pound pressure—the force to work a sprinkler requiring 20 lbs. pressure—the tank or body of water would have to be elevated 40 feet, etc.*



## Henderson's { "4 ARM" AND "8 ARM" } Lawn Sprinkler.

This is the best lawn sprinkler made. It can be attached to hose and placed anywhere on the lawn, where it serves the double purpose of a beautiful fountain and of thoroughly saturating the grass or garden. The water is distributed in fine drops over an area of 60 to 100 feet in circumference, according to the pressure on the water. An ornamental standard, about 4 feet high, is surmounted with long perforated arms, which revolve, so the beautiful sprays are constantly changing. The water pressure required for satisfactory operation is 30 lbs. for the 4 arm sprinkler, and 40 lbs. if the ball and basket is used; and for the 8 arm sprinkler, a 40 lb. pressure is required, and with the ball and basket attachment, a 50 lb. pressure. **Prices:** for a 4-arm sprinkler, \$2.75; for a 8 arm, \$3.25.

**Ball and Basket.** This fits on top of the Henderson Sprinkler; and the stream of water keeps the silvered ball dancing on its summit up in the air. When the ball falls the basket catches it, and it rolls into the centre and is again raised by the water. Price, \$2.50 extra,

# The "Comet" Lawn Sprinkler.



## THE "COMET" LAWN SPRINKLER

Will Sprinkle an Area FOUR TIMES Greater Than Any Other Sprinkler.

By means of the swiftly revolving arms and intermediate gears, the upper part of the body is made to revolve slowly around carrying the hose nozzle, from which a large stream of water is thrown far out beyond that thrown by the arms, thereby covering four times the space of any other stationary sprinkler.

With an ordinary force of water it will thoroughly sprinkle a space of 80 feet in diameter. The hose nozzle and tips on ends of arms are adjustable so that it can be adapted to as small a space as desired. Excepting the legs, it is made of solid brass and nicely nickled, most substantial and durable as well as the most attractive and useful sprinkler ever made.

Price, \$5 00.

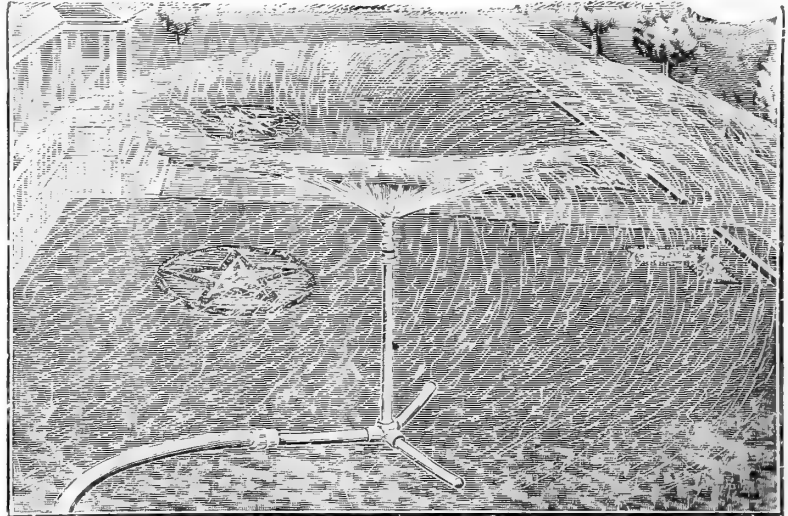
## THE "WATER WITCH" LAWN SPRINKLER.

(With or without stand.)

An effective device for sprinkling Lawns, Gardens, or Flower Beds. The water flows with unimpeded force, and is divided and deflected by the two lips of the swivel piece which it causes to revolve rapidly, scattering the water in fine drops and evenly over a circular area of twenty five to forty feet diameter.

Price without stand (i. e., with spur to stick in the ground.) 75c. each; by mail, 85c. each.

Price, with stand. (cannot be mailed.) (See cut,) \$1.25 each.



THE "WATER WITCH" LAWN SPRINKLER.

## The Jewel Lawn Sprinkler.

Will Sprinkle either a Half or Full Circle by simply turning the thumb nut.

We consider this one of the most durable and satisfactory sprinklers ever placed on the market; it sprinkles either a full or a half circle. When set to sprinkle a half circle it can be placed close to a walk and while wetting the lawn yet allows one to pass on a dry walk. The distributing channels of this sprinkler are large and thus there is no chance to clog. It will sprinkle a circle from two to forty feet according to water pressure. The operation of changing from a whole to a half circle is so simple that a child can work it. For full circle turn the thumb screw to the left, for half circle reverse the operation. Prices, with spur to stick in the ground, 75c. or by mail 85c.

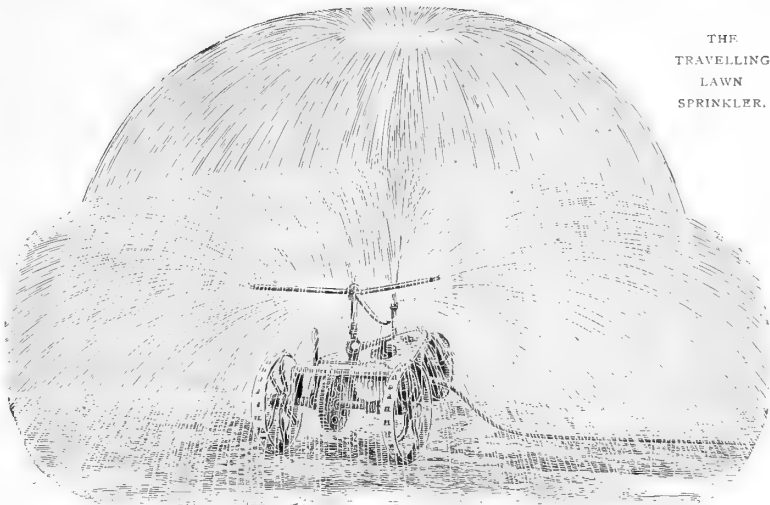


JEWEL LAWN SPRINKLER

# THE TRAVELLING LAWN SPRINKLER.

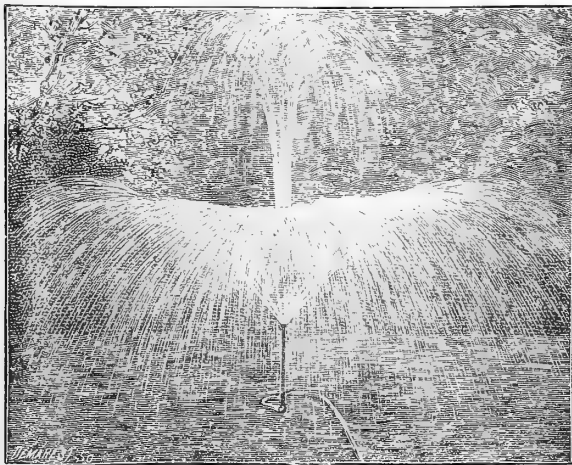
This Travelling Lawn Sprinkler, under an ordinary pressure of water will roll itself slowly and steadily in any direction, either in a straight line or in a circle of any diameter desired. It can be set to travel anywhere from 15 to 500 feet per hour as preferred. Can be changed from the lowest to the highest speed in a moment. It can be gauged to throw the water over a swath anywhere from 5 to 50 feet in width. It can be used as a stationary sprinkler by throwing it out of gear. With a pressure of water as low as 20 pounds it will drag 75 feet of hose, while with a pressure of 60 to 70 pounds, it will carry 200 pounds extra weight and drag as many feet of hose.

It is as indispensable to any well kept lawn as water, and it reduces the application of that much-needed element to a pleasure. It works to perfection—in fact, doing the work more thoroughly and in less time than a person could do it—needs less attention—set the machine and there you are. The Travelling Sprinkler, even when stationary, is equal to all others; and its ability to move itself over the lawn makes it of the greatest utility. **Price, \$14.00.**



THE TRAVELLING LAWN SPRINKLER.

## Common Sense Lawn Sprinkler



COMMON SENSE LAWN SPRINKLER.

There are no moving parts to get out of order, no arms to get bent, stopped up, etc. The SPRINKLER may be cleaned in a moment, should it become choked, by simply loosening the nut, the force of water will drive out any dirt that has accumulated.

In use the most beautiful water effect is produced, there being a large umbrella spray, very fine, as well as jets nearly upright; these jets not only add to the beauty of the fountain, but by falling upon the umbrella spray break it up more and dash the water over all parts of the large circle. The parts all being rigid there is little loss of pressure.

While the area covered is very large, yet the spray is so fine that comparatively little water is used; not only this, but the spray being very fine, the sunshine produces most beautiful rainbow effects.

The diameter of the circle will vary with the pressure; good to heavy pressure will wet a circle 20 to 40 feet in diameter.

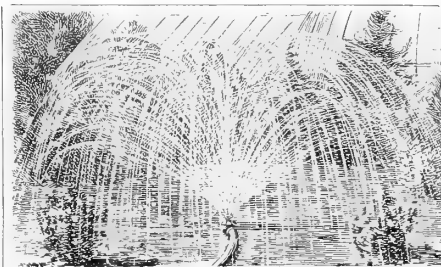
**Price, \$1 50 each.**



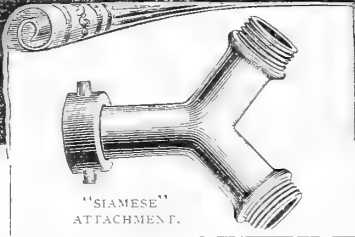
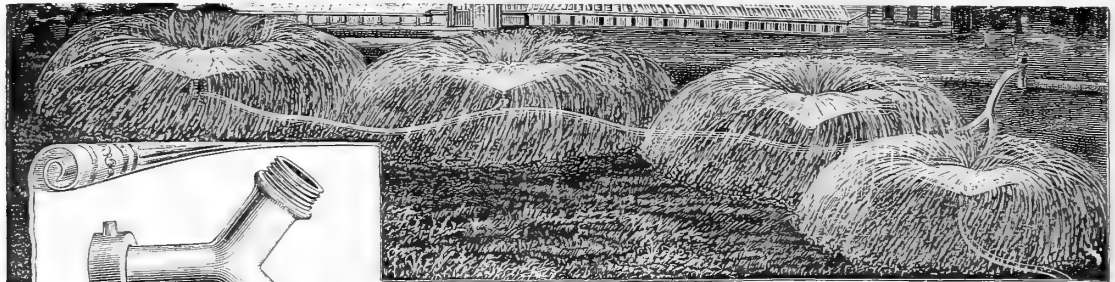
# THE "NIAGARA" LAWN SPRINKLER.

An unequalled low pressure Sprinkler—under a pressure as low as 5 pounds it will distribute a spray of uniform density over an area 15 feet in diameter, and with a water pressure of 25 pounds or over it will cover an area of 30 feet or over in diameter, it is very unique and simple—with no revolving parts to wear or get out of order—and by simply turning a knurled sleeve any desired density of spray can be obtained.

**Price, (with spur to stick in the ground,) 35c. each, or by mail, 40c. each.**



THE "NIAGARA" LAWN SPRINKLER.



"SIAMESE"  
ATTACHMENT.

## "Siamese" Lawn Sprinkler Attachment.

SEVERAL sprinklers can be operated at one time with this arrangement, providing the pressure and volume of water is sufficient. A three-quarter inch hose and thirty to forty pounds pressure will operate three sprinklers; a forty to fifty pound pressure, four sprinklers; with one inch hose and a good pressure, six sprinklers can be operated satisfactorily. This method of watering is invaluable for thoroughly saturating large areas of lawn or garden, distributing the water more evenly and thoroughly than can possibly be done with a hose nozzle.

We found that the "Water Witch" and "Niagara" Lawn Sprinklers (with spur to stick in the ground) were the best sprinklers for the purpose. One of these sprinklers and the "Siamese" was applied at the end of every twenty-five foot length of hose. Prices, Siamese Attachment for 3/4 inch hose, 75c; by mail, 85c; for 1 inch hose, 85c., by mail, 95c.

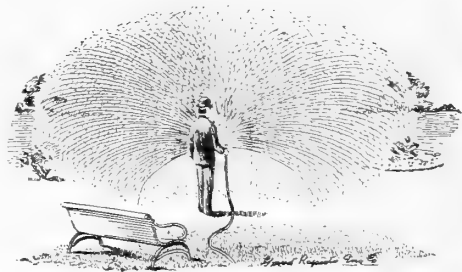
## "RAIN MAKER" HOSE NOZZLE,

The Best  
Sprinkling Nozzle  
Ever Made.

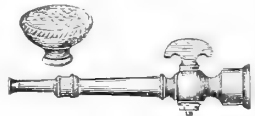
It throws a flat, fan shaped sheet of water which breaks up into myriads of small drops falling like gentle rain and covering an arc-like area of from six to twelve feet in diameter according to pressure. The spray is so evenly scattered that the soil does not pack nor wash out from the roots of plants or grass. For watering greenhouses, spraying under foliage as well as above it, it is unequalled, and its use is sure death to red spider. For sprinkling lawns it is especially valuable. It can be simply thrown down or used in connection with our hose nozzle holder, (offered below). It is made of brass and is practically indestructible. There is no clogging, no leaking on the operator. Please state which of the undermentioned you want.

- No. A, has 3-16 inch flow, for a medium water pressure, fits 3/4 inch hose..... 75c. each.
- No. B, has 1/4 inch flow for a heavy water pressure, fits 3/4 inch hose..... 75c. each.
- No. C, has 1/8 inch flow, for killing red spider or roses etc, fits 3/4 inch hose..... 75c. each.
- No. D, has 5-16 inch flow, for heavy water pressure, fits one inch hose..... \$1.00 each.

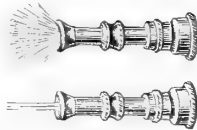
(If by mail, add 10c. each extra for postage.)



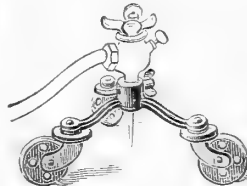
"RAIN MAKER" HOSE NOZZLE.



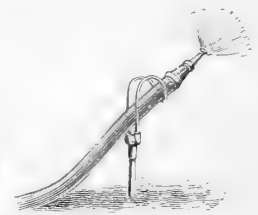
**Brass Hose Nozzle.** Brass with stop cock in the large end, spray rose and straight stem. Prices, for 1/2 and 3/4 in. hose 75c., or by mail 85c.; for 1 in. 85c., or by mail 95c.



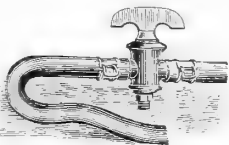
**The "Graduating" Spray Nozzle.** Will throw a coarse or a fine spray, a large or a small solid stream. The spray can be closely contracted or made to cover a large area. These results are obtained by revolving it part way round. Price, 3/4 in. 50c., or by mail 65c.



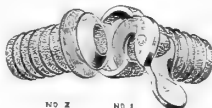
**Lawn Sprinkler Carriage.** Can be used with any sprinkler, having a spur to stick in the ground—the carriage enables the sprinkler to be moved without shutting off the water. Price, 75c. each.



**Gem Nozzle Holder.** For watering lawns and flower beds. The hose is held firmly and can be adjusted to any elevation in an instant. 25c. each, by mail 30c.



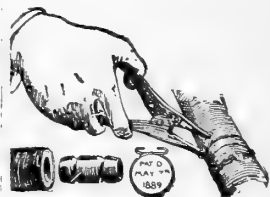
**Hose "Shut Off."** Can be inserted in hose at any point, thereby saves much time. For 3/4 inch hose, 90c., by mail \$1.00.



**Lightning Hose Coupler.** Instantly attached or disconnected, no twisting of the hose, no bruising fingers, water tight. (State if wanted to replace old couplings, or to be attached to them.) Price, post paid, per set 2 pieces, 3/4 in., 30c., FAUCET ATTACHMENT extra, 15c.



**Jones' Hose Mender.** Quickly applied, no tools or bands required. Hose is brought together makes a smooth joint and gives a firm hold. The bore being exact size of internal diameter of the hose, no obstruction occurs. PRICES. By mail. each. doz. each doz. 3/4 inch ... 5 50 | 6 60 1 inch ... 7 75 | 8 85



**Hudson's Hose Menders.** Practical, simple, perfect. Price, per box of 6 tubes, 20 bands and 1 pair of pliers, 75c.; or by mail, \$1.00. (Give size of hose.) TUBES, 1/2 in. 2c.; 3/4 in. 3c.; 1 in. 4c. each. BANDS, 20c per doz. PLIERS, 30c.; by mail, 35c.



**Hose Reducer.** 1 inch to 3/4 (mailed free) 30c.

# HENDERSON'S "BEST PARA" RUBBER HOSE.



HENDERSON'S "BEST PARA" HOSE.  
(Showing new "water tight" couplings on.)

**T**HIS is the highest grade of garden hose, being made entirely from New Para Rubber and will outlast cheap hose three times over. We guarantee it to stand a 200 pound water pressure, and it will be as resilient in three or four years time as when new; while cheap hose of that age, will be hard and rotten. Every length of Henderson's Best Para Hose is fitted with the new water tight couplings, without extra charge. (Hose is furnished only in 25 feet and 50 foot lengths, the sizes  $\frac{3}{4}$  and 1 inch refers to the internal diameter of the bore.)

### PRICES "BEST PARA."

$\frac{3}{4}$  inch, per 25 foot length..... \$4.00; 50 foot length..... \$7.50  
1 " " 25 " " ..... 5.50; 50 " " ..... 10.00

# "STANDARD QUALITY" RUBBER HOSE.

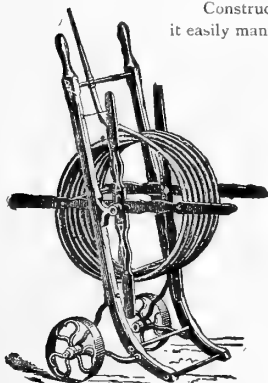
This is a grade that is often sold as the "best," while it is a good hose and will stand a 75 pound pressure, yet it is not warranted. Each length is fitted with the regular couplings, without extra charge.

### PRICES "STANDARD QUALITY."

$\frac{3}{4}$  inch, per 25 foot length..... \$3.00; 50 foot length..... \$5.75  
1 inch, per 25 foot length..... \$3.75; 50 foot length..... \$7.00

# "IRON" HOSE REEL.

Constructed entirely of tubular iron, and are indestructible. Light in weight, frictionless, and the wheels being high make it easily manipulated; a good, strong, handsome and convenient reel.



BENT LEG HOSE CARRIAGE.

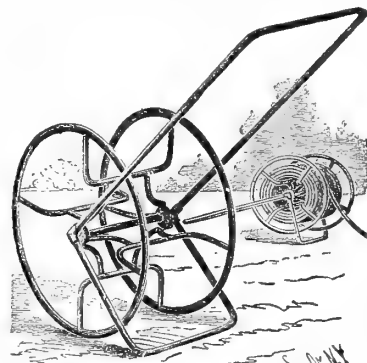
No.	Height of Reel.	Weight.	Capacity $\frac{3}{4}$ -in. Hose.	Price.
10	21 in.	18 lbs.	100 feet.	\$2.75
20	24 in.	22 lbs.	150 feet.	3.00
30	30 in.	30 lbs.	500 feet.	5.00

## BENT LEG HOSE CARRIAGE.

This is the best wooden reel made—not easily tipped over. Can be rolled from place to place. By using a reel the hose is always drained, thus preventing it from rotting.

### PRICES.

No. A, for 100 f. .... \$2.00 No. B, for 200 ft. .... \$2.25



"ALL IRON" HOSE REEL.

**HENDERSON'S WATER BARREL TRUCKS AND ACCESSORIES.**

WITH LEAF RACK WITH FORCE PUMP WITH HAND CART BOX WITH SPRINKLER

Copyright Vest by Peter Henderson

The Barrel is raised from the ground, carried to the place desired, and can be readily disconnected from or attached to the truck while barrel is either full or empty. We have wheels of  $1\frac{1}{2}$ ,  $2\frac{1}{2}$  and 4 inch tire, but always send truck with wheels  $1\frac{1}{2}$  inch tire, unless otherwise specified. We also supply as extra attachments the following: A Box with trunnions and spring catch, making a very superior dumping Hand-cart. A Sprinkler, invaluable for watering lawns and watering walks. Water is turned on and off by hand wheel and ball valve. A Leaf Rack, very useful for removing leaves and litter. The working parts of the pump are all brass. It works very easily, and throws a stream 40 feet, and is well adapted for spraying trees and shrubbery with insecticides or fungicides.

### PRICES.

Truck and barrel, $1\frac{1}{2}$ -in. tire.....	\$10.00	Extra trunnions, per pair.....	\$0.50	Gem Force Pump Attachment.....	\$5.00
Truck and barrel, $2\frac{1}{2}$ -in. tire.....	11.00	Hand-cart box.....	2.75	(If truck and trunnions without barrel are wanted, deduct \$2.00 from prices of trucks with barrel.)	
Truck and barrel, 4-in. tire.....	12.00	Leaf rack.....	4.00		
Extra barrel, with trunnions on.....	2.50	Sprinkling attachment.....	2.50		



"LITTLE GEM" HORSE  
POWER SPRINKLER.



"LITTLE GEM JR." HAND POWER SPRINKLER.

## THE "LITTLE GEM" HORSE POWER SPRINKLER,

FOR SPRINKLING LAWNS, DRIVEWAYS, TREES, GARDENS, &c.

Will spread water 18 feet wide, or the spread may be reduced to any desired width down to one foot at the will of the operator; or it can be readily adjusted to apply one or two narrow streams at one time, directly on to vegetables or other plants in rows, thus sprinkling two rows at one time. It is the only sprinkler adapted for spreading liquid manure, as it will not clog. The valves are operated from the drivers seat, thus giving him perfect control of the flow at all times. Each side working independently of the other.

Capacity, 150 gallons; Tire, 4 inches wide; Wheels, 4½ feet high; Tracks (outside), 4 feet 10 inches wide; Gear, painted red; Tank: green. Price, (f. o. b. cars N. Y.) \$90.00 net, (list price, \$125.00)

## "LITTLE GEM JUNIOR" HAND-POWER SPRINKLER.

OPERATED BY A MAN OR BOY AS EASILY AS A WHEELBARROW.

For sprinkling lawns, walks, and drives in private grounds; also useful for laying the dust in large buildings and stables. Capacity, 52 gallons; weight, 280 lbs. Price, (f. o. b. cars N. Y.) \$20.00 net, (list price, \$25.00.)

## Henderson's "Success" Hand Force Pump.

This is the best and most durable portable hand pump in the market. Working parts are made of solid brass with large air chamber, and is double-acting, throwing an absolutely continuous stream, either solid or in a fine spray, as desired; very light and easily carried, and works from any bucket or tub. Just the thing for throwing liquid insecticides and fungicides on low trees, shrubs, etc. (See cut.) Price, \$3.50.



HENDERSON'S "SUCCESS"  
HAND FORCE PUMP.

## THE REDDICK MOLE TRAP.

The best and most complete Mole Trap ever invented. An arrangement for holding the handle up renders it easy to set, and cannot "startle" or injure the operator while being set. It will catch moles when quite deep in the ground, and there being no pin or other obstruction projecting into the run, there is nothing to frighten or disturb the mole as it passes, and in doing so raises the ground over the "run" just enough to spring the trigger, which must firmly rest on the soil over the "run." The points of the pins being constantly in the ground, it cannot catch or injure chickens or other domestic animals. Cannot be blown over, or injured in any way by rain or storm, and being made entirely of metal, cannot warp, twist or get out of order, and is light, neat and durable. The ground not being disturbed in any manner, it can be set close to plants without injuring them, and it can also be set touching a wall, fence, etc., without impairing the working of the trap in any way.

WHERE TO SET THE TRAP.

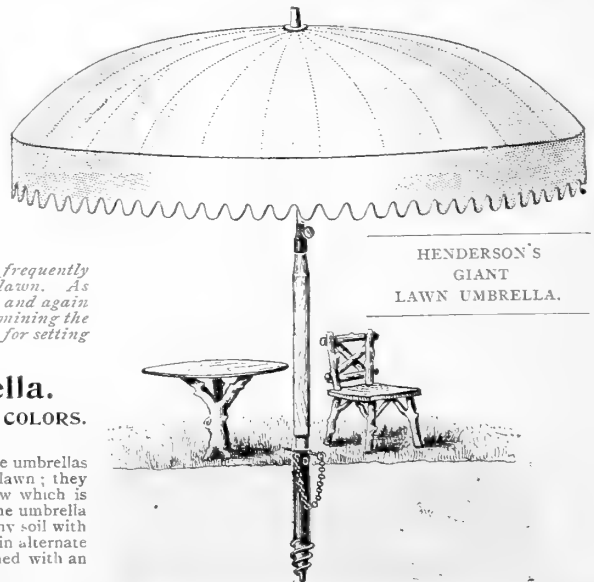
There are many tracks through which a mole passes but once, and, of course, is

useless to place the trap over such a run. To find a run which is frequently used, depress the ridges for a short part distance in several parts of the lawn. As moles pass through some runs at regular intervals, say about 12 M., and again at 6 P. M., it is an easy matter to tell which "runs" are used, by examining the depressions and noting those that have been raised. Full directions for setting sent with each trap. Price, each \$1.00.

## Henderson's Giant Lawn Umbrella.

EIGHT FEET ACROSS. ALTERNATE STRIPES OF BRIGHT COLORS. VERY SHOWY ON A GREEN LAWN.

These giant framed umbrellas are the strongest and most durable umbrellas in the world. They are not only very useful but very attractive on a lawn; they spread 8 feet. The centre pole is thrust into a large hollow iron screw which is easily turned into the ground, the screw can remain, if desired and the umbrella can be closed and removed in a moment. It can be quickly set up in any soil with ease. The umbrella has 16 strong steel ribs covered with heavy cloth, in alternate bright colors, usually red, yellow, blue, and buff—the edge is finished with an 8-inch curtain. Price, complete, with ground fastenings, \$7.50.



HENDERSON'S  
GIANT  
LAWN UMBRELLA.

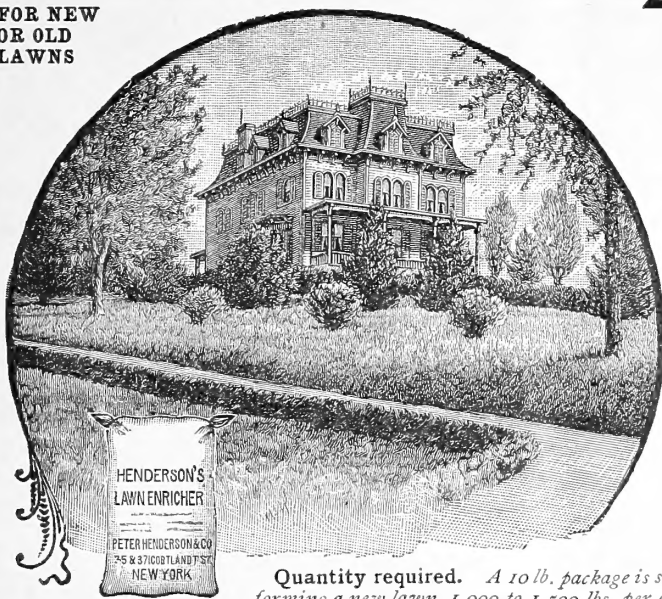






# THE "HENDERSON" ODORLESS LAWN ENRICHER

FOR NEW  
OR OLD  
LAWNS



IT NEVER FAILS TO INDUCE A RICH GREEN AND LUXURIANT GROWTH IN A FEW WEEKS' TIME.

CAN BE APPLIED IN SPRING, SUMMER OR FALL.

A CLEAN, portable and convenient lawn dressing which is never failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall, though it can be put on during the summer without injury or danger of burning the grass, and a remarkable improvement will soon be observed. It is in every way more desirable than manure, which is so often full of weed seeds. The use of "Henderson Lawn Enricher" entirely does away with the old practice of top dressing lawn with stable manure which was so objectionable on account of unsightliness and disagreeable odors.

Quantity required. A 10 lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, 1,000 to 1,500 lbs. per acre, or a smaller quantity for renovating an old one.

**PRICES BY EXPRESS OR FREIGHT.** (Purchaser paying transportation charges.)

5 pound package.....	30c.	25 pound bag.....	\$1.25	100 pound bag.....	\$3.75
10 ".....	50c.	50 ".....	2.00	per ton of 2,000 pounds.....	60.00

## LYON'S AUTOMATIC LAWN FEEDER.—(Odorless.)

It applies the fertilizer while you Water, and Feeds your Grass or Garden with High-Grade, immediately available, Concentrated Plant Food.

It is a neat, light device, attached between the end of the hose and the nozzle or lawn sprinkler and automatically dissolves a stick of Concentrated Fertilizer, diffusing it through as much water as will pass through an ordinary garden hose in about one hour. It is clean, odorless, non-poisonous and will give perceptible results after one week's use on your lawn or in your garden. The Cartridges that fit into the feeder are prepared from the most powerful and efficient concentrated fertilizers. The analysis shows 44 per cent. of Phosphoric Acid; 13½ per cent. Potash; 12½ per cent. Ammonia, a combination to make the plant life grow and flourish, keep the grass green, and the flowers in bloom. The fertilizer is sufficiently hardened to prevent a too rapid wasting, but is thoroughly dissolved as it leaves the nozzle and is therefore in a condition to be readily absorbed by the roots of plants or grass. Complete outfit, consisting of one holder and 12 of the food cartridges, prepaid to any address on receipt of \$1.00.



Extra Food Cartridges, in boxes of 24 for 50c., or prepaid for 75c.

## HENDERSON'S FLUID WEED DESTROYER.

The Best, Cheapest and Safest Destroyer of Weeds, Moss, Grass, &c., in Garden Walks and Carriage Drives.

It completely destroys all weeds, wherever applied, and by its effects on the ground prevents the growth of fresh ones for a year afterwards, thus saving an immense amount of labor in hoeing, etc.

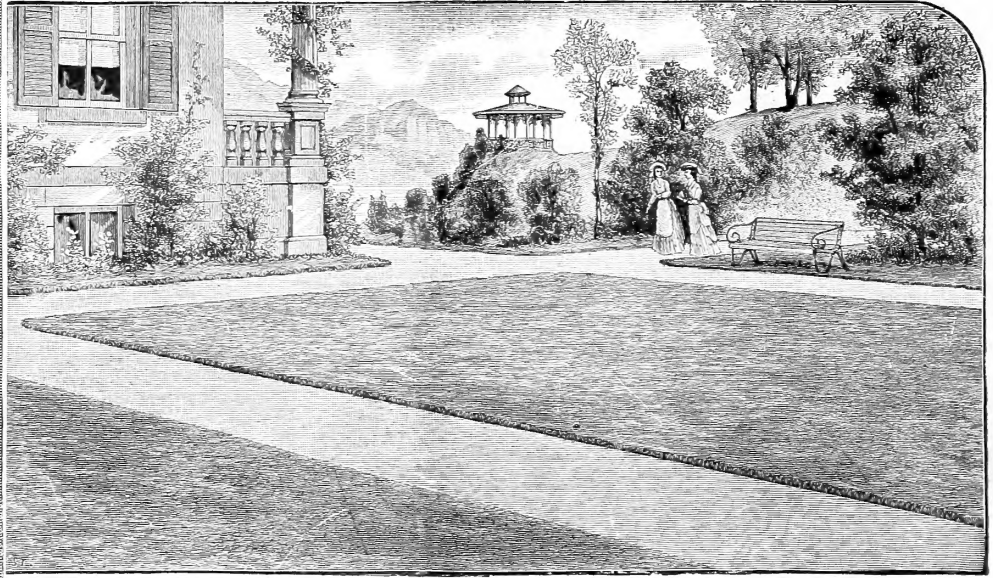
Its application is easy, being in a liquid form and only requiring to be mixed with water and applied with a watering can. Four gallons mixed with a hundred gallons of water will cover an area of about 50 yards square. Full directions for use with each package.

Quart Can, sufficient to make 6 gallons of liquid, 50c. Gallon Can, sufficient to make 25 gallons of liquid, \$1.25  
5 Gallon Keg, sufficient to make 125 gallons of liquid, \$4.00.

## HENDERSON'S ANT DESTROYER.

A non-poisonous powder which will destroy or drive away black ants from lawns, trees, plants, houses or other affected locality, if sprinkled around their haunts. Price, ¼ lb. can, 25c., or by mail 30c.; 1 lb. can 75c., or by mail 85c.

Peter Henderson & Co.,  
35 & 37 CORTLANDT ST., NEW YORK.



The “HENDERSON”  
.....LAWN GRASS SEED.

Has made Thousands of

Lawns, Parks, Athletic Grounds and Cemeteries  
FAMOUS FOR THEIR BEAUTY.

The closely interwoven turf, and the smooth, velvety surface.  
The rich deep green color maintained throughout the hottest weather  
And the short time required to make a perfect lawn  
Has called forth Hundreds of Encomiums from the users of

The “Henderson” Lawn Grass Seed.

(SEE PAGES 2 TO 5.)



