

**IMPORTANT TO FAMILIES FURNISHING.**  
 who study Economy with Economy - French-painted Mahogany, Arabian Mahogany, three guineas; Bedding, Cabinet, Carpet, Lumbering, and Wholesale Warehouse. Estimates given, and a list of prices sent post-free.  
**JAMES COOK, ARCHITECT, ROYAL, 23 and 27, QUEEN'S BUILDINGS, KNIGHTSBRIDGE.**

**HEAL and SON'S ILLUSTRATED CATALOGUE OF BEDSTEADS**, and free by post containing designs and prices of upwards of One Hundred different Bedsteads in Iron, Brass, painted Wood, polished Birch, Mahogany, Rosewood, and Walnut-tree Wood, also their grand List of Bedding, and their new improvements enable them to keep one of each design fresh for imitation. They have also, in addition to their usual stock, a great variety of the best designs of PARIAN BEDSTEADS both in wood and iron, which they have just imported - HEAL and SON, Bedstead and Bedding Manufacturers, 11a, Tottenham-court-road.



**IMPROVED SLUICE COCKS for Water.**  
 One, or Steam, brass-foot, and others raised by square thread, engine turned screw, working in Brass Nut, in every respect so good as can be manufactured, are offered at the following prices per inch -  
 1 inch. 1 and 1/2 inch. 2 to 3 inch. 4 to 5 inch.  
 12s. 14s. 16s. 18s.  
 Lithographs of the improved self-indicating, and various other constructions, with descriptions and prices attached, may be had on application.  
 Beside purchase Builders' Crabs, as above, fitted with Two Handles, and Wrought Iron Braces and Spindles, with feet to throw in and out of gear, prior to the work. Delivered in London free.

**BARKETT, KEALL, AND ANDREWES,**  
 Engineers Iron Works, Reading.  
 Agents in London - DEANE, DRAY, and DEANE, where the above may be seen.

**PRIZE MEDAL CLASS IN HIGH-PRESSURE VALVE COCKS. - LANKERT'S PATENT.**



These Cocks have, during the last five years, been extensively and most successfully used in many Towns under continuous high pressure, varying from 100 to 150 lbs.; their durability and despatch is by experience established.  
 The Equilibrium Ball-valve indicates and certifies in its action, and is cheaper than the ordinary Cocks now in use.  
 Examined from self-closing, and other defects, upon economic arrangements, suitable for public works, arsenals, &c.  
**THOMAS LANKERT & CO.,**  
 Brass and Iron Foundry, Short-street, South-west, Lambeth.

**TO WATER COMPANIES AND PLUMBERS. HIGH-PRESSURE COCKS and GLOBES.**



The Health of Towns Commissioners having recommended the adoption of the best and most economical principle in all cases, **WALKER'S HIGH-PRESSURE COCKS** is recommended as a Cock free from leakage, and applicable for all purposes and situations. Patent Chemical Boats with supply-valve for attaching direct to water pipes without a separate cock, or valve.  
**JOHN WALKER and SON, Engineers, 4, Cross-street, London.**

**REDUCTION OF PRICE IN UNGLAZED DRAIN PIPES.**

Manufactured by **CHAR FRANCIS and SONS, NINE ELMS.**

6s. 3d. per foot for the 1 1/2 inch bore.	
6s. 3d. - - - - - 4 - - - - -	
6s. 3d. - - - - - 6 - - - - -	
6s. 3d. - - - - - 8 - - - - -	
6s. 3d. - - - - - 10 - - - - -	
6s. 3d. - - - - - 12 - - - - -	

These pipes are made under steam pressure, and burst to great hardness, and are capable of bearing nearly double the hydraulic pressure of ordinary glazed pipes. The prejudice against red-ware is overcome by this manufacture. And it is well known that good earthenware, **UNGLAZED**, is the oldest material discovered in a perfect state in Rome, Sicily, Nippon, &c. &c.  
 Agent for Southampton, **H. L. FLEDDER, American Wharf.**

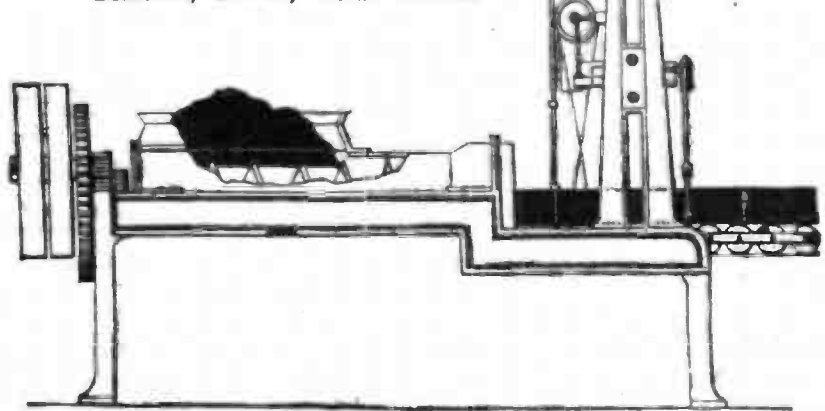
**TO ARCHITECTS, CIVIL ENGINEERS, SURVEYORS, BUILDERS, AND TO LOCAL BOARDS.**  
**THOMAS BIGGS, 13, Fleet-street, London,**  
 Depot of Articles for Waterworks, Drainage, Liquid Manure Distribution, and other Sanitary purposes.

**LONDON HOUSE**  
 FOR  
**RIDGWAY & CO.'S SANITARY VESSELS,**  
 INCLUDING  
**FOUNTAIN BASINS, CISTERNS, SINKS, &c.**

**STOCK & SON'S SOIL-PAN SERVICE-BOX.**

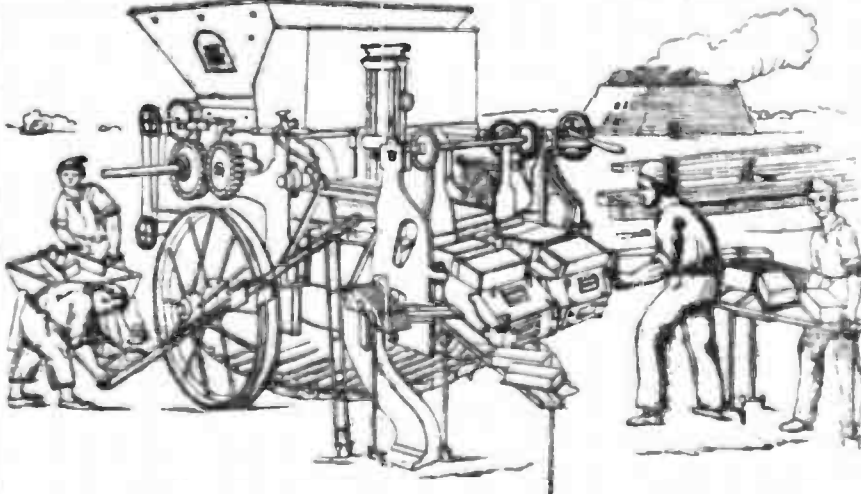
The object of this contrivance is to facilitate the introduction of sanitary measures into the dwellings of the working classes, by the adoption of such an arrangement of water soil-pans as will, of itself, supply openings of water service to be made available for the removal of the refuse, by preventing the enormous waste of water in places of this description, to which water is constantly used as a flush, and is perfectly clean. By the use of this service-box an ample supply of water is obtained, without the possibility of its being wasted by stopping the valve, which the handle, or by other means. It is so constructed, that, so long as the deposit-water runs into open, a further supply cannot enter the service-box from the main. Draining and discharging may be obtained from STOCK and SON, Manufacturers of Plumbers' Brass-work, Sanitary Cisterns, Rotary Sewer-down Pipes, Fire Pumps, Gas Pipes, and Church Furniture in iron and brass, Temple-street, Birmingham.

**RANDELL AND SAUNDERS'S PATENT MACHINE**  
 FOR THE  
**IMPROVED MANUFACTURE**  
 OF  
**BRICKS, TILES, AND PIPES.**



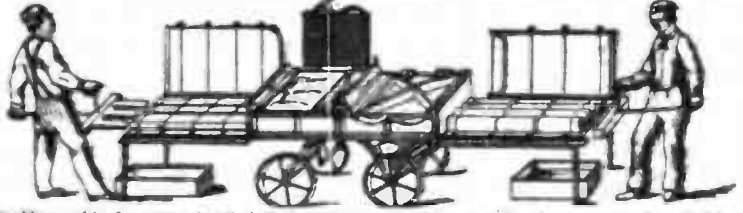
In this machine are combined the two objects so long sought in brick machines - a press which forces the clay through a die without vibration so long as the clay is supplied to the machine, and a perpetual self-acting cutter, which severs the clay the required lengths without interfering with its progress.  
 The clay, in a rough state, is thrown upon the screw by the person employed to fill the machine; the screw, in revolving, thoroughly presses the clay, and also forces it forwards into a chamber at the other end of the cylinder in which they receive; from this chamber the clay is allowed to pass through a die, and it is obvious that the stream of clay must take the form of the opening through which it passes, and this opening can be made of the form required to make bricks, tiles, pipes, and other descriptions of ware.  
 When it is necessary to give the ends of the bricks a corrugated shape, this can be done by attaching a knife to the cylinder of the cutter; this knife revolves with the cylinder, and it makes the shape required for the ends of the bricks, which form it imparts to the bricks in cutting them. This arrangement is adapted for making Messrs. RANDELL and SAUNDERS'S Patent Drying Bricks, for various purposes, which make a drain of much greater strength than the common or redware pipes, and at the less cost.  
 The machine is self-acting - the attendants have merely to put in the clay, and remove the bricks, or other ware, which may be produced.  
 When worked with two-horse power, the machine will produce 1,000 bricks, or 1,300 3-inch pipes, per hour; more power can be applied if desirable, and a larger result obtained.  
 The screw propel the clay without taking air in with it; thus the ware comes out free from the imperfections which are so often seen in the ware produced by piston presses; and the loss so generally incurred by waste in burning, from the expansion of the air in the ware, is avoided.  
 The moderate price of this machine, and the simplicity of its construction, place it within the reach of almost every person in the trade, both as to cost and management. It not only lessens the cost of labour required in the process of brick making, but, as the clay can be used in a much drier state than it can be when madded by the hand, the time occupied in drying is much less; and, when hollow bricks are made, a material saving is effected in the cost of manufacture and burning. In consequence of the great economy given to the clay in its transit, ware of very superior quality is produced.  
 For price and further particulars apply to **RANDELL and SAUNDERS, Bath; CHARLES JOHN CARE and CO, Engineers, Belter, Derby; STOTHER, KAYNE, and PITT, Engineers, Bath; or to FOWLER and PAY, Engineers, Bristol.**

**HART'S PATENT PORTABLE BRICK MACHINE.**



This machine, after many improvements in its details, is now confidently submitted to public notice as the most effective and economical means of making burning and bricks of uniformly superior quality. Its advantages over every other machine for obtaining the same end have been so universally admitted by all who have seen it in operation, that it will only be requisite to draw attention to a few of its characteristic features, to secure a very large share of public patronage.  
 1st. The same machine grades the clay and makes the bricks. 2nd. The pressure being equal throughout, the bricks are of uniform density and superior in quality to hand-made bricks. 3rd. The moulds in which the bricks are formed and removed from the machine are made to open; thus the bricks are laid on the pallet-boards without injury to the shape from being handled. 4th. No drilled labour is required, as the machine is entirely self-acting, and requires no but boys to attend to it. 5th. The machine being mounted on wheels, is easily portable in any part of the field. 6th. The quantity made exceeds that by any other means with an equal amount of power; as it is **WARRANTED TO MAKE MORE IN TEN HOURS, WITH 2-HORSE POWER, and will continue in working order for years.** 7th. The saving resulting from the use of the machine can be shown to exceed 70% per annum.  
**PRICE 30s.**

**HART'S PATENT DOUBLE-ACTION BRICK AND TILE MACHINE.**



This machine consists of a worm and toothed wheel, acting on a powerful screw, with a piston at each end; each piston working in the machine, which is capable of containing 3 set of clay at each end.  
 The machine is entirely of iron, and the construction is so simple, that with ordinary care it will last for years, and **WILL BE WARRANTED FOR THREE YEARS.** It is mounted on wheels, so as to be readily taken to any part required. The dies are made for tiles and mouldings of any shape and size; for solid or hollow bricks; for pipes of any shape and size up to 8 inches diameter, and with two receiving tables.  
 It is - The dies for Robert's Patent Hollow Pipes, as exhibited in Prince Albert's Model Cottage in Hyde Park, are manufactured for, and supplied with this machine if required. It is capable of being worked by hand, or may, as well as the Brick Machine, be driven by horse or steam power.  
 The price of the machine, complete, with two tables, two dies, and one screw, for hand-power ..... 30s.  
 Dies, dies, to be worked by horse-power ..... 25s.  
 Price of horse-power to drive one tile machine, 24; if to drive two machines, 36 10s; if three, 48 10s. One horse will drive three.  
 It is worthy attention to his extensive stock of machinery of every description for brick and tile making and will furnish full particulars upon application. Steam-engines from four to fifty horse power kept in stock.  
**ENGINEERING, BOILER MAKING, AND IRONFOUNDRY IN ALL ITS BRANCHES**  
**MANUFACTORY: - ATLAS IRON WORKS, BOROUGH-ROAD LONDON.**