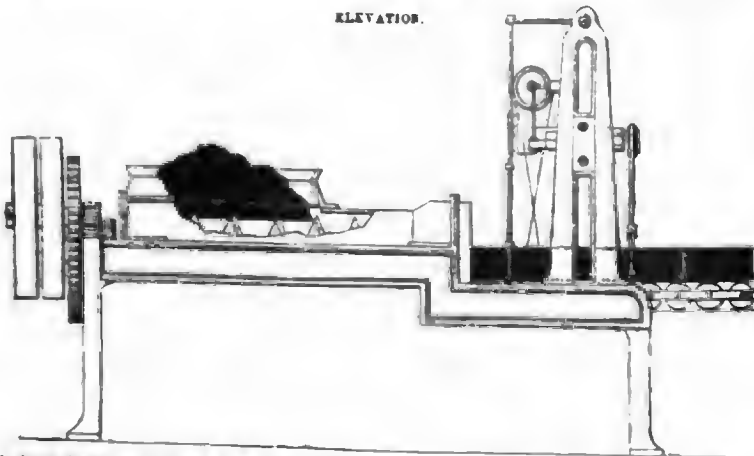


RANDELL AND SAUNDERS'S PATENT MACHINE,
FOR THE
IMPROVED MANUFACTURE OF BRICKS, TILES, & PIPES.

ELEVATION.



In this machine are combined the two objects as long sought in brick machines - a press which forces the clay through a die without the necessity so long as the clay is applied to the machine, and a perpetual self-acting cutter, which severs the clay the required length almost instantaneously with its progress.

The clay, in a rough mass, is thrown upon the screw by the person employed to fill the machine; the screw, in revolving, thoroughly compresses the clay, and also forces it forward into a chamber at the other end of the cylinder in which it revolves; from this chamber the clay is allowed to pass through a die, and it is obvious that the streams of clay must take the form of the opening through which it passes, and it is evident that 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 die; this knife revolves with the cylinder, and it made the shape required for the ends of the bricks, which form it imparts to the screw or press, which makes a series of such greater strength than the material or ordinary pipe, and at far less cost.

The machine is self-acting - the attendants have merely to put in the clay, and remove the bricks, of other ware, which may be produced.

When worked with two-horse power, the machine will produce 1,000 bricks, or 1,000 8-inch pipes, per hour; more power can be applied if desirable, and a larger result obtained.

The screw severs the clay without taking air in with it; thus the ware comes out free from the imperfections which are so often met in the ware produced by piston presses; and the loss so generally incurred by water in burning, from the expansion of the air, 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 land, both as to cost and management. It not only lessens the cost of labour in the process of brick making, but, as the same may be used in a much drier state than is can be when moulded by the hand, less time is occupied in drying the ware, and the ware given to the clay is the least, ware of very superior quality is produced. In consequence of the great compression of the ware, it is of great strength, and is well adapted for erecting bridges, and for other uses.

For price and further particulars apply to **RANDELL and SAUNDERS, Bath**; or to **CHARLES JOHN CALE and COMPANY, Engineers, Balzer, Derby.**

IRON ROOF

By Royal



WORKS.

Efforts Patent.

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The most perfect of ARCHITECTS' ENGINEERS, &c. &c. called to a particularly economical mode of erecting Fire-proof
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the Water or Gas Pipes, Cisterns, Wire of all sizes, Gutters,
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Manufacturers of the Corrugated and other kinds of Iron Roofs,
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Patented
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position to receive orders in a manner hitherto
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railway stations, &c. &c. sized to order, if required. Wire, plates,
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SAW MILLS, GILLINGHAM STREET, PIMLICO
TIMBER of any size, **PLANKS, DEALS**
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in a safe, quick, and easy manner, and provided with Mir's Patent
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they may wish them.
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that, in addition to the numerous patterns therein delineated,
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Materials of the
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These Cocks have, during the last five years, been extensively
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The Equilibrium Ball-valve is simple and certain in its action,
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Manufactured from cast-iron, and other metals, upon either
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to 1/4 in. per square 1/2 inch. 1/4 in. to 1/2 in. 1/2 in. 1/2 in.
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1/2 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in.
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Per square		Per square	
a. d.	a. d.	a. d.	a. d.
1/2 inch Yellow	10 0	1/2 inch White	15 6
1/2 inch ditto	14 0	1/2 inch ditto	14 0
1/2 inch ditto	13 0	1/2 inch ditto	15 0
1/2 in. run of 1/2 inch boards to the square, and 1/2 in. run of 1/2 in. ditto.			
FOUR-PANNELED DOORS per foot superficial:-			
Square moulded one side.		Moulded both sides.	
1/2 in. 1/2 in.	6d	1/2 in. 1/2 in.	6d
1/2 in. 1/2 in.	6d	1/2 in. 1/2 in.	6d
1/2 in. 1/2 in.	6d	1/2 in. 1/2 in.	6d
1/2 in. 1/2 in.	6d	1/2 in. 1/2 in.	6d
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