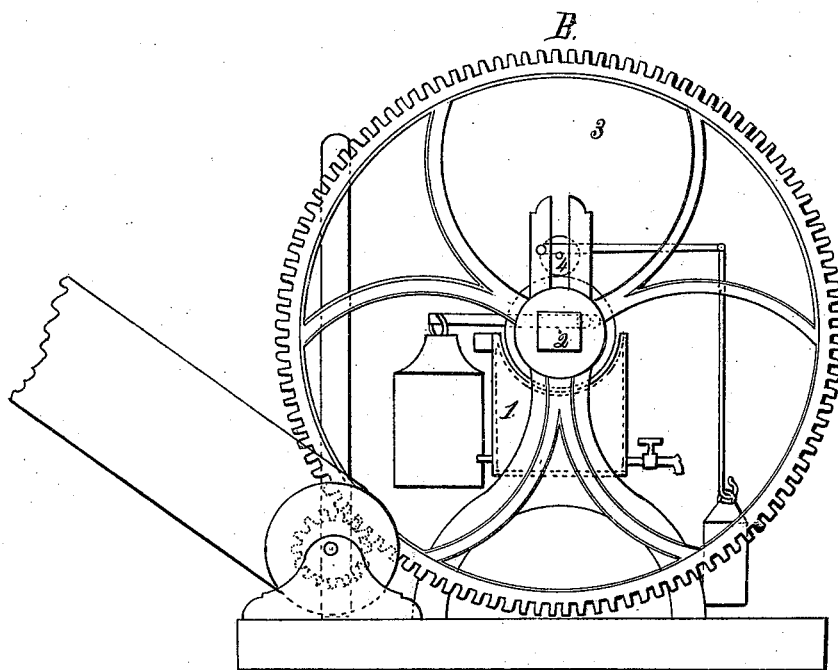
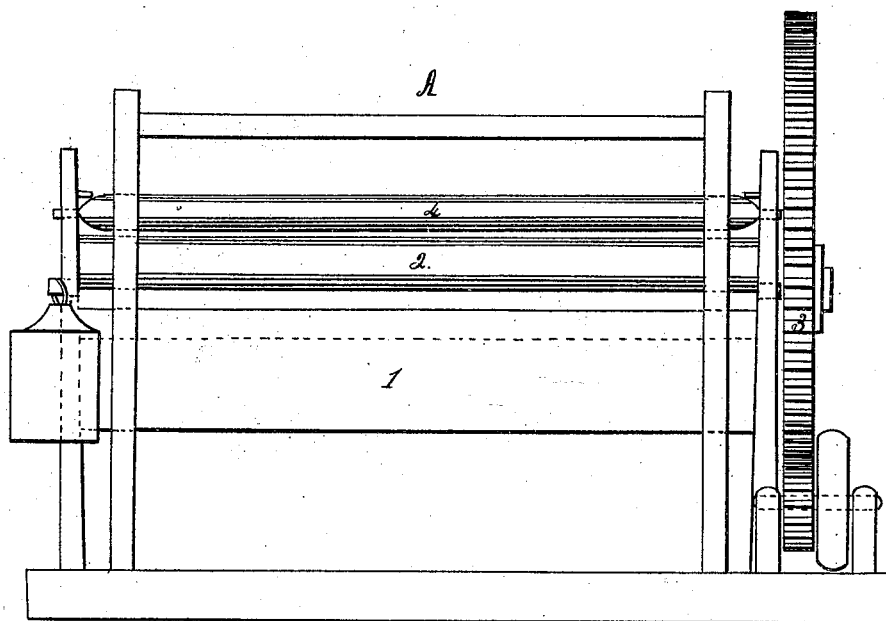


M. Bayley.
Cloth Finishing Mach.

N^o 251.

Patented Jul. 5, 1837.



UNITED STATES PATENT OFFICE.

MOSES BAYLEY, OF SALISBURY, MASSACHUSETTS.

IMPROVEMENT IN ROTARY PRESSES FOR PRESSING WOOLEN AND COTTON GOODS.

Specification forming part of Letters Patent No. 251, dated July 5, 1837.

To all whom it may concern:

Be it known that I, MOSES BAYLEY, of Salisbury, in the county of Essex, Commonwealth of Massachusetts, have invented a new and useful Machine for Pressing all Kinds of Woollen and Cotton Cloths, and have put the same into successful operation in Amesbury, in said county. I have given it the name of the "Rotary Press;" and I do hereby declare that the following is a full and exact description of the same.

The object of the machine is to press all kinds of woollen and cotton cloths.

The specification will be more intelligible by a reference to the accompanying drawings.

Drawing marked A presents a view of the broadside of the machine.

Drawing B exhibits one end of the machine.

The machine consists of a box, (marked 1 in the drawings,) made of cast-iron or some other hard metal, in form of a parallelogram, having three sides square and the fourth and upper side a concave surface to receive the cylinder. The box is tight, and when a hot press is required is heated by being filled with steam. It has an aperture for a pipe to admit the steam, and also an aperture to let it off. A stop-cock is inserted in the box to draw off the condensed steam. The steam discharged from the box may be applied to any other purpose for which steam is used. The cylinder 2 is made of the same material and of the same length with the box. The diameter of the cylinder is less than the diameter of the concave surface of the box, but is made to fit exactly by cloth wound around

it. Should the cylinder not be heavy enough to press the cloth sufficiently hard, it may be held down by means of levers and weights. A large cog-wheel 3 is fastened to one end of the cylinder, with a small pinion gearing with it. The whole is put in motion by a pulley and belt. A small wooden roller 4 lies on the top of the cylinder and winds up the cloth as fast as it is pressed. This roller receives its motion from the cylinder, and is held down to it by a lever and weights at each end.

The operation of the machine is obvious. The cloth is pressed by passing between the concave surface of the box and the cylinder. It then winds upon the roller on top of the cylinder, where it should remain a few hours in order to retain the press.

The length and breadth of the box and the diameter and speed of the cylinder are not given, as they will depend upon the kinds of goods to be pressed.

What I claim as my invention in the within-described apparatus for pressing cloth is—

The using of a metallic box so formed as that a pressing-roller may be made to revolve within a concave extending along it, and into which box steam or other heated material may be admitted when required, the whole constructed for the pressing of cloth, either hot or cold, substantially in the manner herein set forth.

MOSES BAYLEY.

Witnesses:

JOHN CHRISTIAN,
PHILIP F. AUBIN.