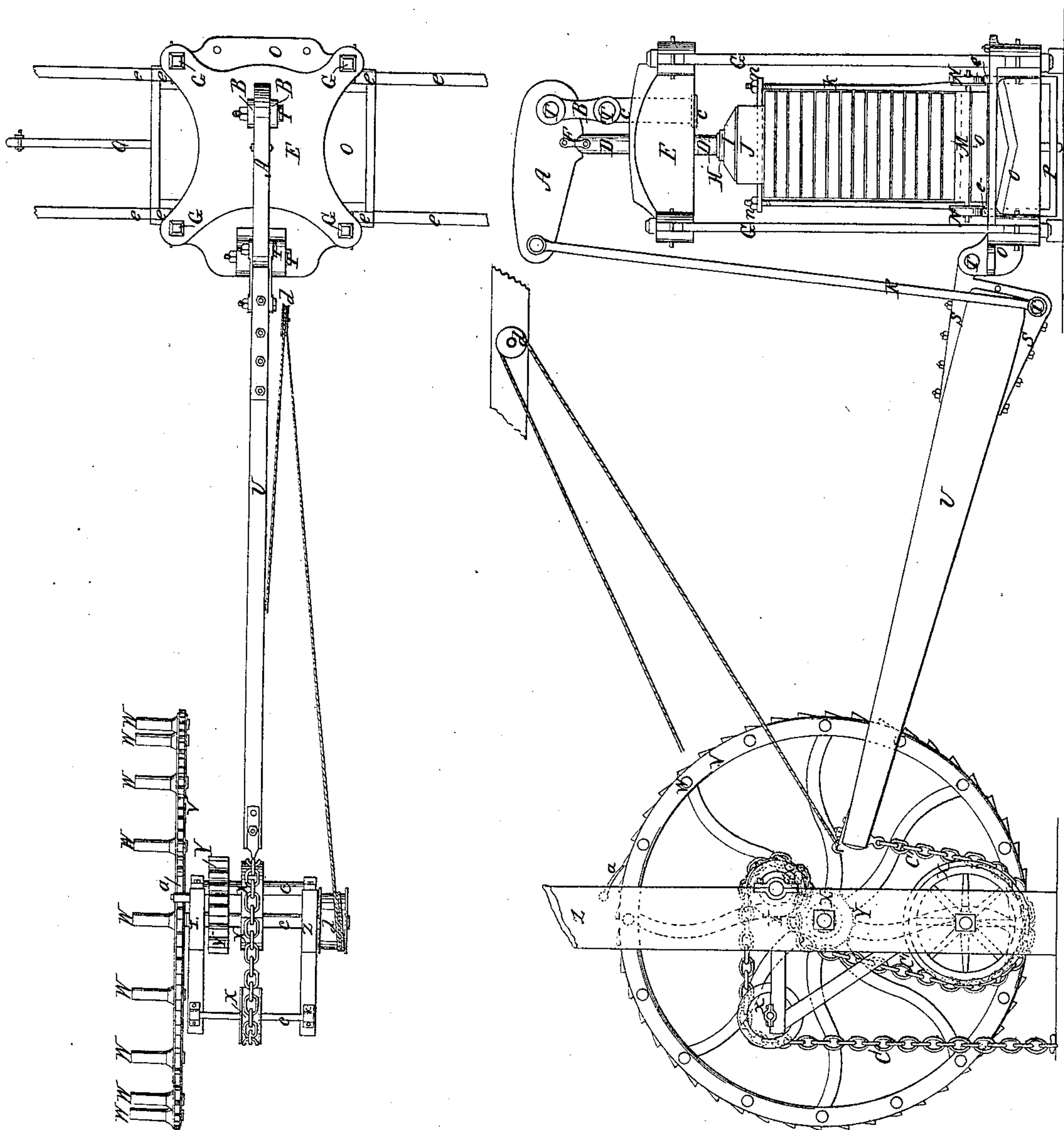


Musser & Coleman,

Tobacco Press.

Nº 19,256.

Patented Feb. 2, 1858.



UNITED STATES PATENT OFFICE.

WM. R. MUSSER, OF BALTIMORE, MARYLAND, AND JOHN COLEMAN, OF
LYNCHBURG, VIRGINIA.

IMPROVEMENT IN TOBACCO-PRESSES.

Specification forming part of Letters Patent No. 19,256, dated February 2, 1858.

To all whom it may concern:

Be it known that we, WM. ROSS MUSSER, of Baltimore, in the State of Maryland, and JOHN COLEMAN, of Lynchburg, in the State of Virginia, have invented new and useful Improvements in Standing Presses, such as are used for pressing tobacco, cotton, paper, books, &c.; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in the application of levers to a stout piston-rod running through the head of the press, for the purpose of giving pressure to the platen of the press, which platen is detached from the piston-rod, and made to fit over the top bar, which connects the braces, in such a manner as to be removed at pleasure, and placed upon an indefinite number of braces or bars, as the case may require.

It further consists in a movable truck and short railway, said truck and railway being used for the purpose of running the braces containing the material to be pressed under the piston-rod, and removing the same after being pressed.

The object of our invention is to do away with the necessity of having more than one press in any one establishment, it matters not how large, making this invention answer the purpose of a number of presses, and from its great power to give any amount of pressure required for the purpose.

To enable others skilled in the art to manufacture and make use of our invention, we will proceed to describe its construction and operation.

In the drawings, Figure I is a top view of the press; Fig. II, a side view of the same.

Letter A in the drawings represents cast-iron lever at the head of the press; U, a large wooden lever attached to the bed of press; R, wrought-iron reins for the purpose of connecting levers A and U; O O O, bed of press of cast-iron. E is the head of the press of cast-iron; D D, cast-iron piston passing through the head E; F, links to hold the weight of piston; B, wrought-iron links connecting lever A with the head of press; C C, wrought-iron con-

necting-links passing through head E; G G, four square bars of wrought-iron connecting the head and bed of the press. H I J is the platen. H is wrought-iron; I, cast-iron; J, of wood. M is the truck, and N N wheels of same. K K are stout brace-bars of wrought-iron, to hold the pressure, having strong screw-threads at their upper end. L is a broad bar or plate moving up and down on braces K K, said bar or plate being made to fit in the slot or groove in the head of the press. Braces K K have a permanent connecting-bar to hold them together at the bottom, which does not show in the drawings, and said bar fits in a slot or groove cut in top of truck. P is wrought-iron braces for raising truck off the sills. Q is end of wrought-iron lever for raising truck on a level with railway after pressure is secured. S S is cast-iron hinge to lever U; V, a fly-wheel. *a* is ratchet for fly-wheel. W are wooden pins in fly-wheel for the purpose of turning the wheel around; X X X X, sheath-rollers for the chain to pass over; Y Y, pinions to turn the upper rollers; *d*, the rope-pulley; Z, upright posts to sustain the fly-wheel. C' is the chain attached to lever U; *e*, the track for truck. *c c c* are wrought-iron shafts for rope-pulleys and sheath-rollers.

This invention operates as follows: The boards used for pressing are filled with the material to be pressed, which are placed in braces K K on track M. The truck is then run under the piston in head of press, when the necessary amount of pressure is given. While the pressure is on, the nuts on ends of braces K K are screwed down as far as they will go with an instrument made for the purpose. When the pressure is taken off, and that part of track *e* immediately under the head of the press, and on which the truck rests, (which part is detached from the main part of the track, so as to leave the wheels free while the truck is on the bed receiving the pressure,) is raised by lever Q. The truck is then run out of the press, its load taken off and put in some proper place, when another load is put on in a new brace, and the truck run in and pressed, as already described.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The application of levers A and U, the sheaths over which the chain passes, said chain being connected to the end of lever U, the braces K K, to retain the pressure, and the movable truck passing under the press.

2. The combination of the whole as a new and useful machine for mechanical purposes,

as substantially set forth in the above specification.

WM. R. MUSSER.
JOHN COLEMAN.

Attest:

J. M. MANKIN,
JOHN S. HOLLINGSHEAD.