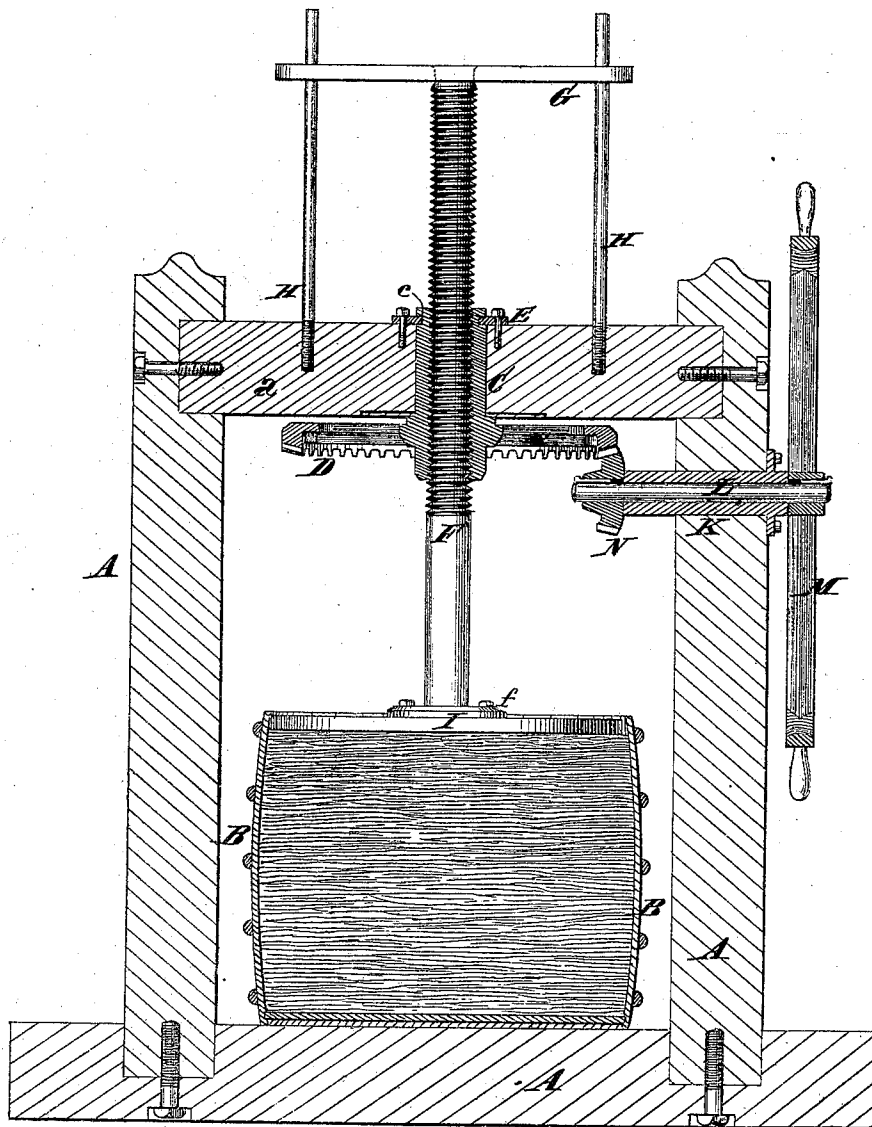


J. GATES.

Improvement in Tobacco-Presses.

No. 131,395.

Patented Sep. 17, 1872.



Attest
Henry Millward
Attorney

Inventor
John Gates
By G. Millward
Attorney

UNITED STATES PATENT OFFICE.

JOHN GATES, OF COVINGTON, KENTUCKY.

IMPROVEMENT IN TOBACCO-PRESSES.

Specification forming part of Letters Patent No. 131,395, dated September 17, 1872.

To all whom it may concern:

Be it known that I, JOHN GATES, of Covington, Kenton county, State of Kentucky, have invented a certain new and useful Improvement in Presses for Forcing Tobacco into Casks, of which the following is a specification:

Nature and Objects of Invention.

My invention consists of a certain combination of devices by which a very powerful action is obtained by the simple rotation by hand of a hand-wheel, and a perfectly parallel movement of the pressure-head upon the tobacco in the cask without the necessity of the employment of any more space around the press than is required to turn the hand-wheel.

Description of the Accompanying Drawing.

The drawing illustrates in sectional elevation a tobacco-pressing machine embodying my invention.

General Description.

A is the frame of the machine, and B represents a tobacco-cask in the process of being filled with tobacco. C is a large revolving nut which forms a part of or is attached to the large bevel-gear wheel D. The nut shoulders against the under side of the beam *a*, which is faced with iron at this point, and is supported by an annular plate or ring, E, whose interior edge fits into a groove, *c*, turned in the nut C. The press-screw F is fitted to the interior screw of the nut C, and is provided with a cross-head, G, whose ends fit over parallel bars H, which serve to prevent the revolution of the screw in the operation of pressing. The pressing-head I is firmly secured to a large head, *f*, of the

screw, and, owing to the great depth of the nut C, and the fact of its having a solid firm connection with the screw, it is always preserved in a perfectly-horizontal position, and the tobacco is, therefore, pressed equally throughout its entire surface. A long sleeve journal-bearing, K, is firmly secured to the frame A, and a shaft, L, is journaled within it, upon one end of which a pinion, N, is secured, meshing into the large gear-wheel D, and upon the other end of which a large hand-wheel, M, is attached by which the press can be conveniently operated by hand, the revolution of the wheel D and nut C giving the vertical movement to the pressing-head I.

I am aware that cotton-presses and presses for other purposes are in use or known, in many respects very similar to the hereinbefore-described tobacco-press. The latter, however, differs from all other presses known before, in that the devices for preventing the rotation of the screw-spindle are separated from the follower-head in order to adapt the latter to enter the package in which the tobacco is to be packed.

Claim.

The screw-spindle F, carrying at one end the follower I, and at the other end the cross-head G, in combination with the guide-rods H, revolving nut C, and gearing D N, substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

JNO. GATES.

Witnesses:

FRANK MILLWARD,
H. G. WEBBER.