

(No Model.)

H. A. CROSSLEY.

MACHINE FOR SETTING VAULT LIGHT PACKING RINGS.

No. 403,578.

Patented May 21, 1889.

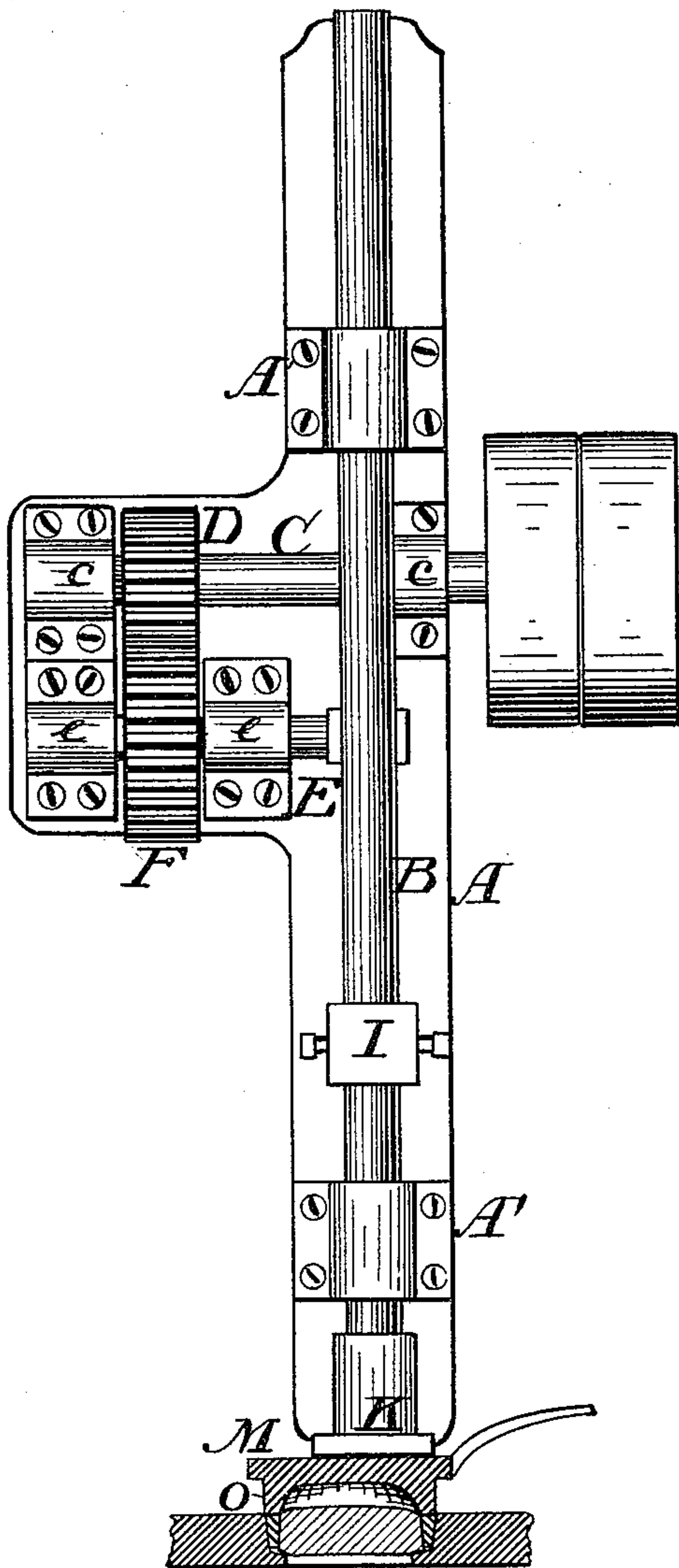


Fig. 2.

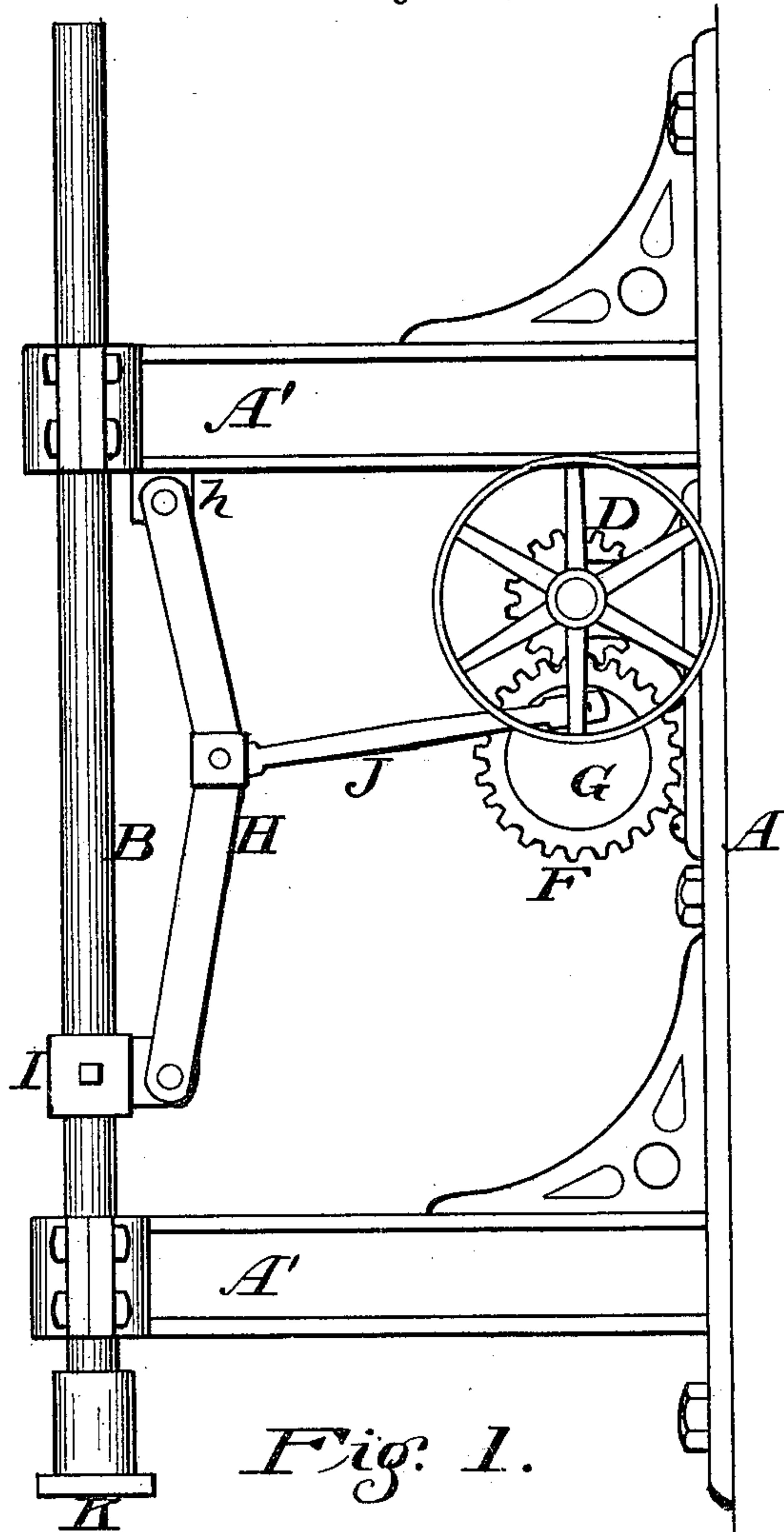


Fig. 1.

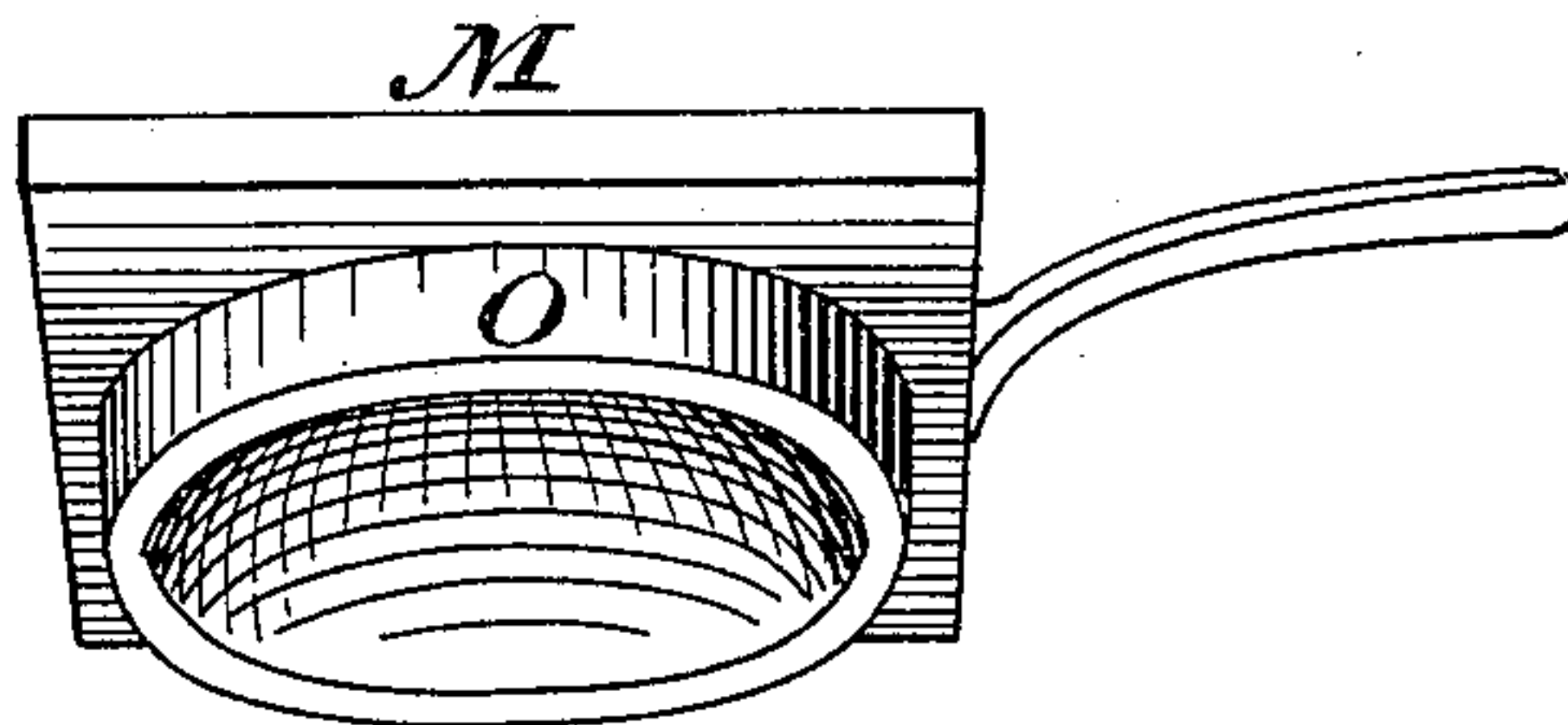


Fig. 3.

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UNITED STATES PATENT OFFICE.

HARRY A. CROSSLEY, OF CLEVELAND, OHIO.

MACHINE FOR SETTING VAULT-LIGHT PACKING-RINGS.

SPECIFICATION forming part of Letters Patent No. 403,578, dated May 21, 1889.

Application filed April 17, 1888. Serial No. 270,988. (No model.)

To all whom it may concern:

Be it known that I, HARRY A. CROSSLEY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Machines for Setting the Lead Packing in Vault-Lights, of which the following is a specification.

This invention relates to machines for forcibly setting the packing-rings holding the glass bulbs in vault-lights; and it consists of a power-press and a ring-plate constructed and arranged to operate substantially as hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation, and Fig. 2 is a front elevation, of my new press. Fig. 3 is a detached view of the ring-plate.

A represents a double bracket-frame consisting of the plate A and two arms, A'. Said frame may be supported by being bolted to a strong post. On the ends of the arms are provided suitable boxes, in which is fixed to have vertical play a shaft, B.

C is a short horizontal shaft having its bearings in suitable boxes, *c c*, attached to the plate A and a side projection thereon. On said shaft C is placed a pinion, D. Beneath said shaft C is placed a second shaft, E, also having its bearings in boxes *e e* on the plate A. It is also provided with a gear-wheel, F, meshing with the said pinion D. On the end of said shaft E is attached a crank-disk, G.

H is a knuckle-jointed lever having its upper end pivotally attached to a lug, *h*, on the upper arm A' and its lower end pivotally attached to an adjustable sleeve, I, on the vertical shaft B. The middle joint of said lever H is connected to the said crank-disk G by a pitman, J. On the end of the shaft C are provided the pulleys for giving movements to the machine. On the lower end of the vertical shaft is provided a foot-plate, K.

M is a ring-plate consisting of a plate hav-

ing a ring, O, made on one side of the diameter equal to the packing-rings used in constructing vault-lights, and it is provided with a handle for the convenience of placing it in position when using.

The manner of using this machine and ring-plate is as follows: A vault plate or frame is filled with the glass bulbs and the packing-rings. Now, said plate is placed on a suitable table or bed beneath the vertical shaft of the press. Then the ring-plate is placed onto a packing-ring and the plate shifted so as to bring the ring-plate under the foot and a pressure of said foot brought to bear upon the said ring-plate, which pressure forces the packing-ring down closely and compactly around the bulb. The ring-plate is placed by hand successively from packing-ring to packing-ring and the pressure made thereon in quick succession, and thus the packing is perfectly and easily performed.

It will be seen by reference to Fig. 2 that it is not necessary to bring the ring-plate directly under the center of the foot for the pressure. It therefore enables the operator to readily perform the work without the extra pains in making a nice adjustment of the plate under the foot.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

A machine for setting vault-light packing-rings, comprising the ring-plate O, the vertically-movable shaft B, set in boxes on the bracket-frame A, the linked or knuckle levers H, attached at top end to frame A and the lower end attached to an adjustable sleeve, I, on the shaft and connected by pitman J to the crank-disk G on shaft E, and the gear F, pinion D, all constructed to operate substantially as described.

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Witnesses:

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