

(No Model.)

M. WARD.
GLASS PRESS.

No. 266,565.

Patented Oct. 24, 1882.

Fig. 1.

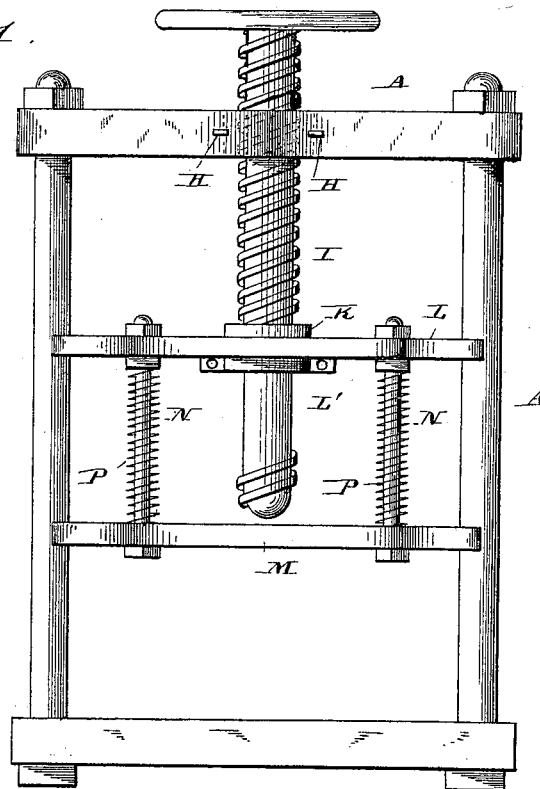


Fig. 2.

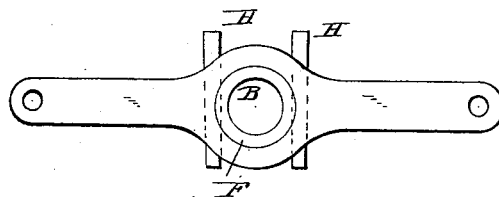


Fig. 3.

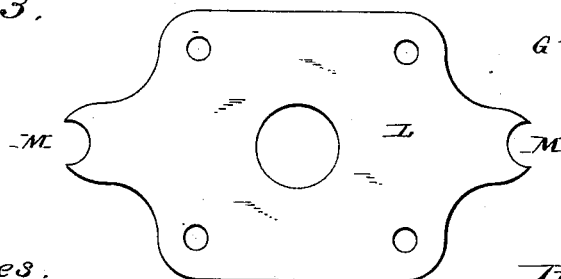


Fig. 5.

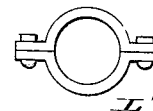


Fig. 4.



Witnesses.

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MICHAEL WARD, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
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GLASS-PRESS.

SPECIFICATION forming part of Letters Patent No. 266,565, dated October 24, 1882.

Application filed July 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL WARD, of
Pittsburg, in the county of Allegheny, and in
the State of Pennsylvania, have invented cer-
tain new and useful Improvements in Glass-
Presses; and I do hereby declare that the fol-
lowing is a full, clear, and exact description
thereof, reference being had to the accompa-
nying drawings, and to the letters of refer-
ence marked thereon, making a part of this
specification.

This invention relates to certain improve-
ments in glass-presses; and it has for its ob-
jects to provide an improved means for form-
ing female screw-threads in articles of glass-
ware, such as fruit-jars and the like; and it
is further the design of this invention to fur-
nish an apparatus which will be capable of
forming screw-threads of the kind alluded to
of various pitches or number of threads to the
inch; and to this end it consists in providing
for the ready removal of the plunger or screw-
forming tool the threads of which are of one
pitch and the substitution of another having
threads of a different pitch, as more fully here-
inafter specified. These objects I attain by the
means illustrated in the accompanying draw-
ings, in which—

Figure 1 represents a side elevation of my
improved apparatus; Figs. 2 and 3 are de-
tached top views of portions of the same; Fig.
4 is a detached view of a removable nut, and
Fig. 5 a detached view of the lower split collar.

The letter A indicates that portion of the
frame of the press technically known as the
"arch." The upper cross-piece of the arch is
provided midway between its two sides with
an opening, B, in which is adapted to fit a fe-
male screw-threaded nut, F, which is detach-
able, and is provided with grooves G on oppo-
site sides for the pins H, which pass trans-
versely through openings in the arch and se-
cure the nut in place. Through the nut ex-
tends a screw-threaded shaft, I, which is pro-
vided with a collar, K, which bears against
the upper face of the movable plate L, which
is provided with recesses M at opposite sides,
and is loosely fitted between the sides of the
frame and adapted to play vertically therein.

The shaft below the plate is provided with a
detachable collar, L', which abuts against the
lower face of the said plate. Below the plate
the shaft is plain, except near the lower ex-

tremity, where it is provided with a short
thread of the same pitch as the thread above.

The letter M' indicates a movable plate, pro-
vided with recesses at opposite sides, and
adapted to move vertically in the frame. The
plate M' is provided with a central aperture,
through which the shaft above mentioned is
adapted to pass, and is connected loosely to
the bolts N, which are secured rigidly to the
plate L. These bolts are surrounded by springs
P, by which the plates are held normally apart.
The screw shaft is detachable with its nut, so
that a number of various pitches may be em-
ployed, according to the style of thread to be
formed in the glassware.

The operation of my invention is as follows:
The mold is placed in the frame under the
opening in the movable lower plate, with a
proper quantity of matter or plastic glass in
it. The screw-shaft is then rotated so as to
depress the plates until the aperture of the
lower plate sets over the mouth of the mold.
Upon further rotating the screw-shaft it enters
the mold and forms the thread in the plastic
glass. When the thread is formed by revers-
ing the motion of the screw-shaft the lower
thread is withdrawn, leaving its impression in
the article, the parts being brought to their
normal position, ready for the next operation.

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

1. In a glass-press, the combination of the
vertical posts, the upper cross-beam, and the
detachable nut having external notches and
means for securing it in the beam with the
vertically-descending screw-threaded shaft, as
shown and described.

2. In a glass-press, the combination, with
the frame having the screw-threaded shaft
working through the cross-beam thereof and
provided with collars, of the guide and press-
ure plates and the connecting-bolts and press-
ure-springs, substantially as shown and de-
scribed.

In testimony whereof I affix my signature,
in presence of two witnesses, this 12th day of
July, 1882.

MICHAEL WARD.

Witnesses:

W. B. STEWARTSON,
W. H. BRUNT.