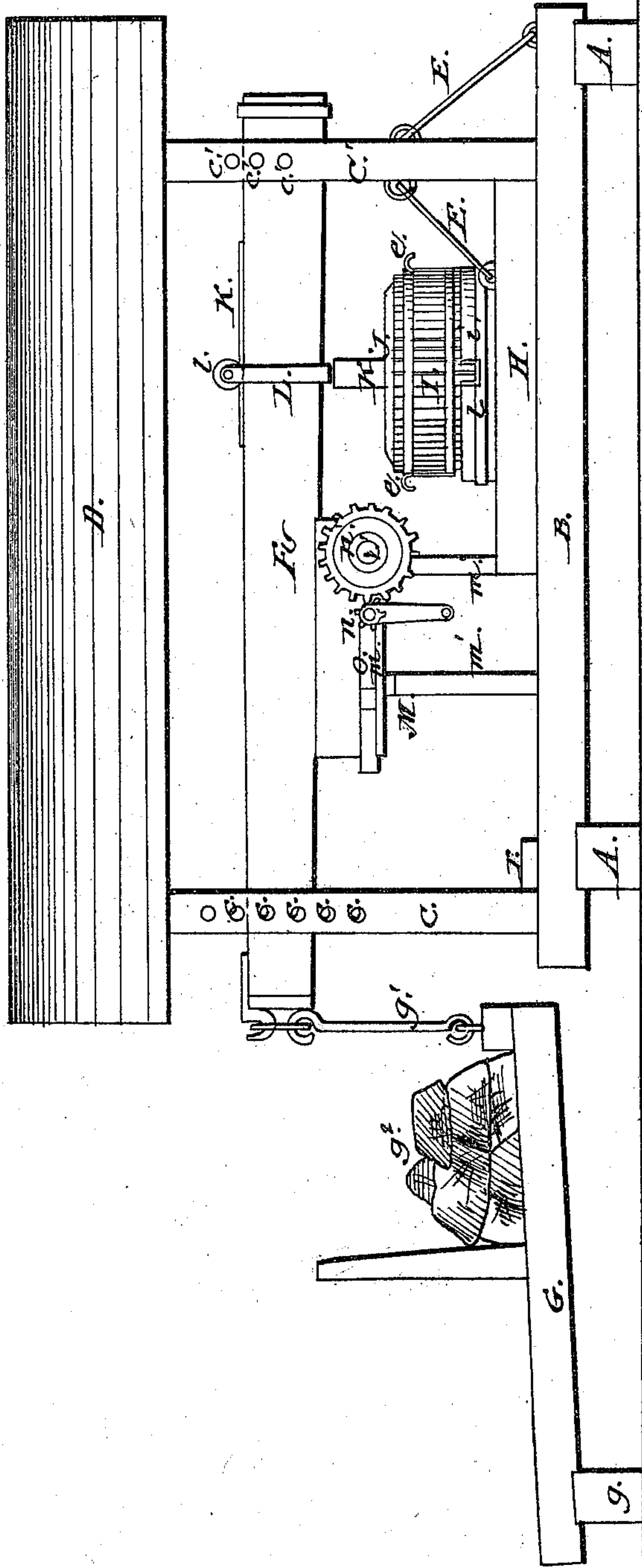


J. Scholer,

Wine & Cider Press.

No. 90,053.

Patented May 11, 1869.



Witnesses:

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United States Patent Office.

JACOB SCHOLER, OF BURLINGTON, IOWA.

Letters Patent No. 90,053, dated May 11, 1869.

IMPROVED WINE AND CIDER-PRESS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JACOB SCHOLER, of Burlington, in the county of Des Moines, and State of Iowa, have invented a new and improved Wine and Cider-Mill and Press; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which my invention is represented by a side view.

The object of the invention is to construct a mill and press for the purpose of manufacturing cider, wine, &c., having its parts so arranged and adapted to operate together, as to render it much more effective, convenient, and economical of time and labor than any heretofore brought into public use.

In the drawings—

A A are the transverse sleepers;

B B, the longitudinal stringers; and

C C', the vertical posts of the frame, the whole covered by a roof, D, and properly supported by braces E E, whenever they may be needed.

F is the press-lever, pivoted at one end, between two posts, C' C', its other end extending between the other two posts, C C, for the purpose of receiving the power.

The latter is applied by means of a frame, G, one end of which rests upon the ground, as seen at *g*, the other end being suspended from the end of the lever by a link, *g'*, and being weighted at *g''*, as may be desired.

c' c' c' are a set of holes, by which the fulcrum of the lever may be adjusted higher or lower; and

c c are a corresponding set of holes, by which a similar adjustment may be made, should the position of the lever be reversed, or by which a stop-bolt can be inserted through the posts C C, which shall, at any point, check the downward action of the power *g''*, and arrest the operation of the press.

A bed-piece, H, is fastened upon the stringers B B, to hold the tub or cylinder I.

The latter is composed of vertical staves, surrounded by metallic hoops, the ends of which are bent outward into flanges, through which extend connecting screw-bolts.

By tightening up the nuts on the bolts, the staves can be forced together and the cylinder rendered perfectly tight, when necessary.

It is also provided with two hooks or ears, *e e*, on opposite sides, so constructed that a rail or other pole can be inserted in them for the purpose of lifting the cylinder off of its platform *i*.

The platform itself is simply a circular bed, having a vertical flange around its perimeter, provided with a spout by which the liquid escapes from the press.

The floor or platform *i* may be provided with the usual channels, to permit the more ready escape of the juice.

Similar channels may be made in the under side of the platen J.

Four or more of the staves may project slightly

lower than the others, in order to raise the lower edge of the cylinder a little from the floor of the press, and allow the juice to escape freely.

The platform *i* and cylinder I can be moved along the bed H, to the right or left, as shown in the drawing, in order to regulate the power and velocity of the press without changing the weight *g''*.

The platen is supported by a standard, K, attached to the lever F by a loose strap, L, the weight of the platen, &c., resting upon a roller, *l*, on the upper side of the lever, which facilitates the moving of the platen with the cylinder.

That the lever may not be worn by the roller, the latter may have an iron track, *k*, for the roller to travel upon.

This completes the description of the press.

The mill is placed upon a table, M, supported by posts *m' m'*, and constructed in the form of a slightly-inclined shallow spout, so that any of the juice that may drop upon it will run off into the cylinder I.

When at work, the cylinder is to be moved up, so that the end of the table will be over it. Or the table may be made adjustable in position, and be moved up to the cylinder.

The mill consists of an oblong box, O, with open top, which can be set upon, and, if necessary, secured to the table M.

Across this box extend two corrugated rollers, their corrugations interlocking, like cog-wheels, as they revolve.

The shafts *v v'* of the rollers extend through the side of the box, and bear cog-pinions *n n'*, one large and one small, and each provided with a crank or wrist-pin, either fixed or detachable, so that the power can be applied by means of one pinion or the other.

In grinding apples, &c., where greater power is required, I employ the small pinion as the power-wheel; but in grinding grapes, &c., where less power and greater speed are the desiderata, I use the large wheel.

The rolls (and the wheels, of course, with them) may be made adjustable toward and from each other, so as to grind more or less fine.

The bottom of the box O only extends to the edge of the roller of shaft *v*.

There are some details of construction not shown in the drawings; for instance, the boxes for the corrugated rollers are fastened to an iron rail, one of them being movable, for the purpose of adjusting the distance between the rollers.

The rollers are of cast-iron, one foot in diameter, hollow, with fourteen ridges or corrugations, each one inch wide, and one and one-fourth inch high.

In case the apples are very hard to grind, it is only necessary to place a piece of wood on either side over the rollers, so as to reduce the number of apples on the mill at one time.

When necessary to raise the lever and remove the platen from the press, a jack-screw may be employed.

I provide a cross-beam, *r*, for it to rest upon.

When not in use about the press, the jack-screw may be employed elsewhere.

I construct and sell the jack-screws in connection with the mills and presses.

The whole arrangement is simple and compact, involving as little expense of construction as possible, and operating more conveniently and economically than anything heretofore brought into public use for the same purpose.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of bed H, movable floor *i*, movable tub I, and movable platen J, supported by stand-

ard K, strap L, and roller *l*, when said parts are employed in connection with a lever, F, substantially as and for the purpose specified.

2. The within-described arrangement of weight-frame G, link *g'*, lever F, platen J, and cylinder I, constructed and operated in the manner and for the purpose specified.

JACOB SCHOLER.

Witnesses:

THEOD. GUELICH,
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