No. 701,874. Patented June 10, 1902.

C. GLAUS.

BUTTER CUTTING MACHINE.

(Application filed Dec. 26, 1901.)

(No Model.) 2 Sheets—Sheet 1.

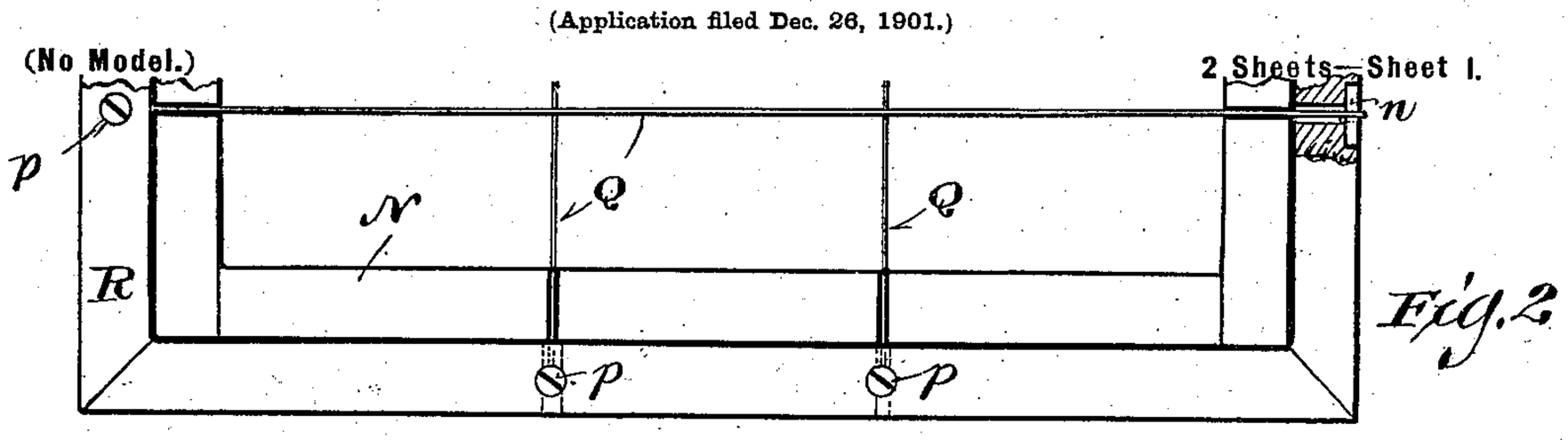

Fig. 2.

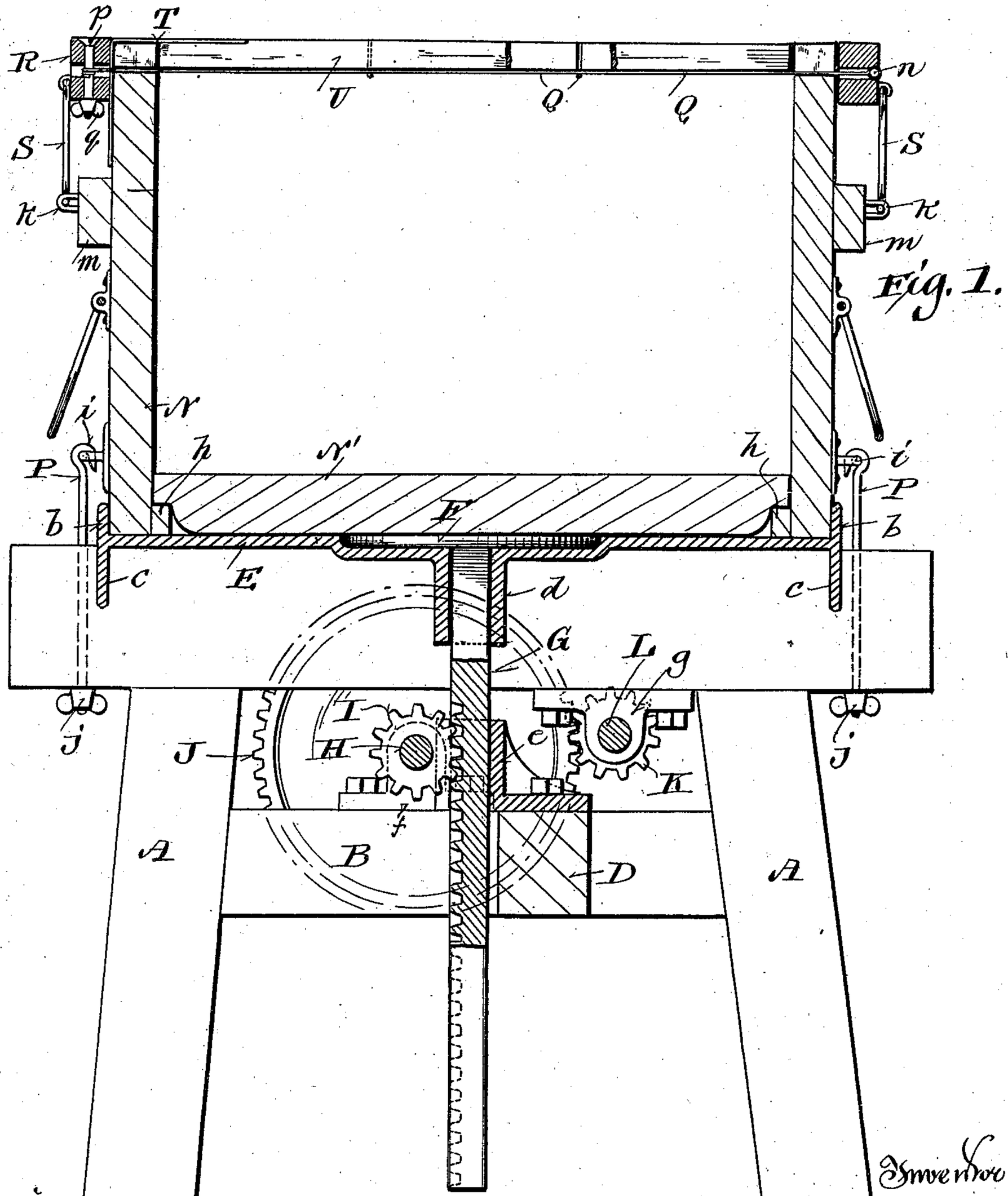

Fig. 1.

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Fig. 4.

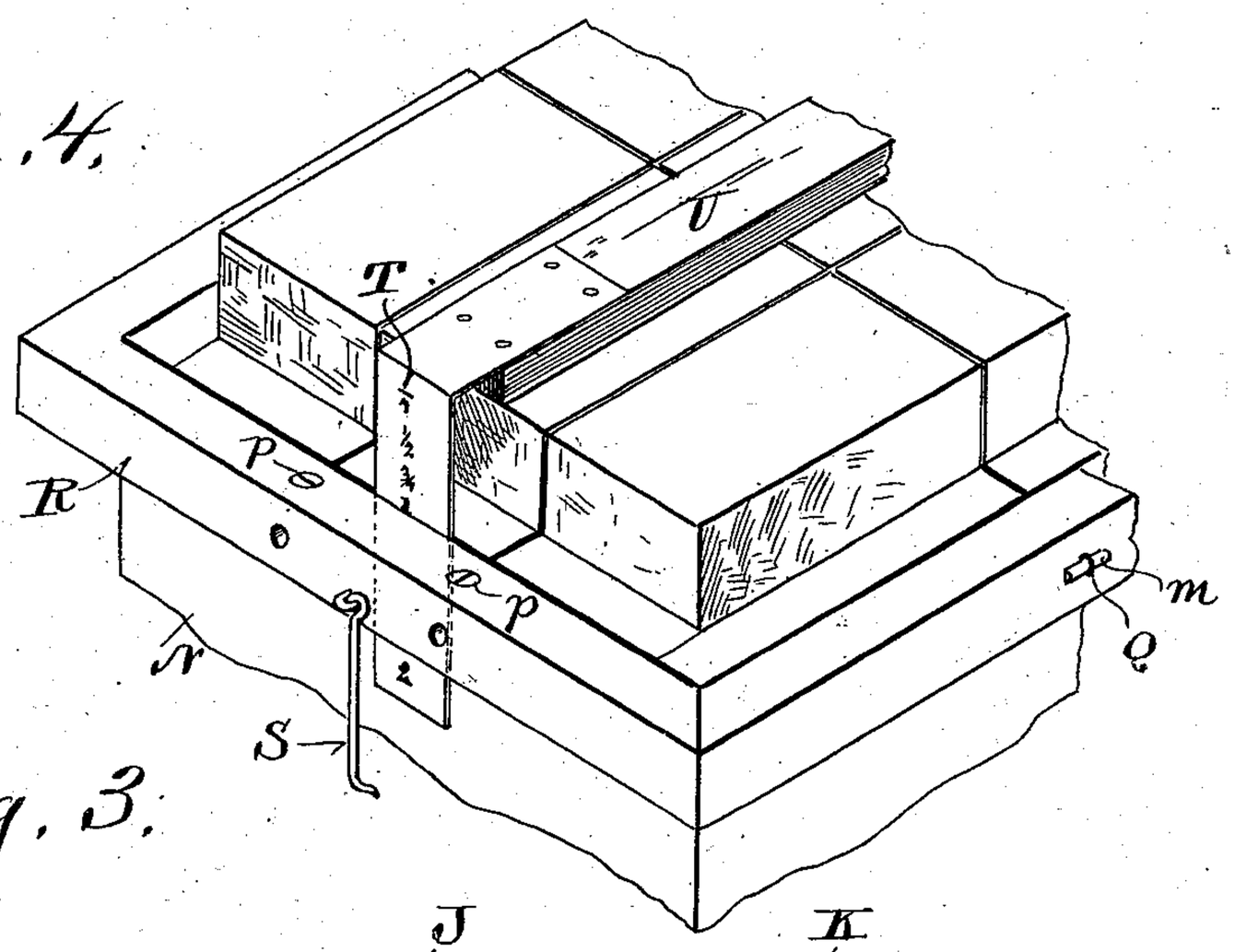
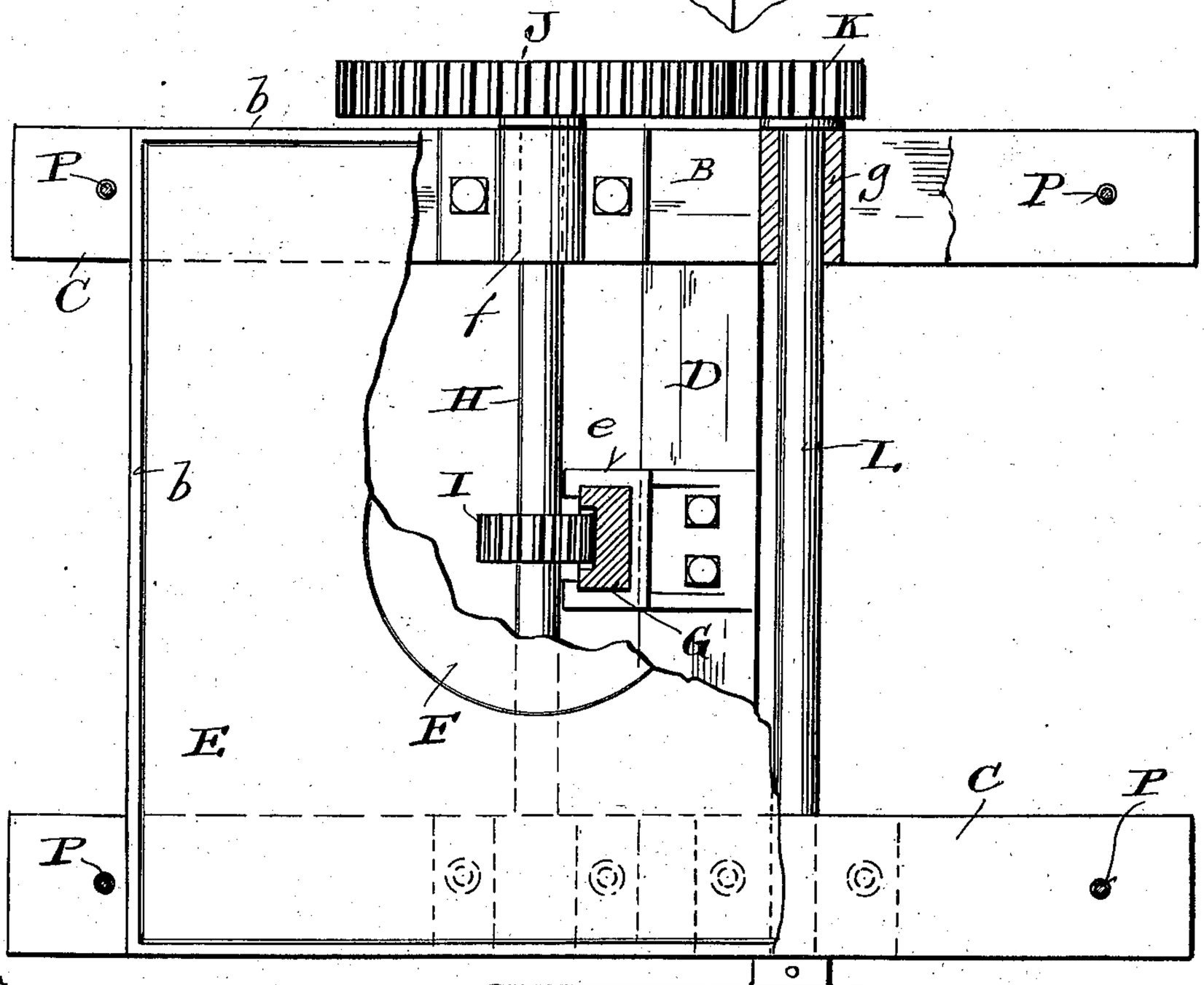


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHRISTIAN GLAUS, OF MILWAUKEE, WISCONSIN.

BUTTER-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 701,874, dated June 10, 1902.

Application filed December 26, 1901. Serial No. 87,177. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN GLAUS, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Butter-Cutting Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple economical machines having utility as means to facilitate conversion of butter masses into angular cakes of predetermined proportions and weight, said invention consisting in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently-claimed.

Figure 1 of the drawings represents a central section of a machine in accordance with my invention; Fig. 2, a plan view of a portion of a cutter-frame and tub constituting parts of the machine; Fig. 3, a plan view of the lower portion of said machine, partly broken and in section, its butter-tub and cutter-frame elements having been removed; and Fig. 4, a perspective view of a portion of the butter-tub and cutter-frame together with an adjustable gage, this view being made to show vertical separation of a mass of butter forced upward out of the tub.

Referring by letter to the drawings, A represents legs; B, leg-braces; C, each of a pair of leg-supported parallel sills, and D a beam between the two leg-braces, these several parts being arranged and joined to form the frame of my machine. However, the construction of the machine-frame may be considerably varied without departure from my invention. Set on the sills C is an angular table E, having an upper endless flange *b* and depending transverse flanges *c*, the latter flanges being extended from one to the other of said sills.

Table E is provided with a central sink constituting a seat for a platen F, that is normally flush with said table. A rack G, constituting a shank of the platen, engages a depending guide *d*, with which the table is provided, and another guide for said rack is a bracket *e*, bolted on frame-beam D above specified. Bolted on leg-braces B of the machine-frame are bearings *f* for a shaft H, and a pinion I, fast on the shaft, meshes with the platen-rack. A spur-wheel J, fast on shaft H, is in mesh with a pinion K, fast on another shaft L, hung in bearings *g*, bolted to the under sides of the sills C, and a hand-wheel M is shown in connection with shaft L as means for the application of manual power to turn the same.

Set on table E, inside flange *b* of same, is an angular tub N for butter, the bottom N′ of the tub being loose and supported on cleats *h*, with which said tub is provided. Hook-bolts P engage with eyes *i* on the tub and extend through sills C of the machine-frame, clamp-nuts *j* being run on these bolts against the under sides of said sills to hold said tub in place.

Engaging vertical kerfs in the tub-walls at the upper ends of same are crossed wires Q of a frame R, and this frame is held in snug fit on the tub by hooks S engaging eyes *k*, with which outer cleats *m* of said tub is provided. Each frame-wire is bent at one end on a pin *n* and being passed through an aperture in a frame-bar is wound taut on a bolt *p*, crossing an aperture in the opposite frame-bar, a clamp-nut *q* being run on the bolt against the adjacent frame-bar to hold said bolt and prevent slacking of the wire.

One of the frame-bars is grooved upon the inner side to permit of the vertical arm of an angle-iron T being pushed in between it and the adjacent tub-wall, and a gage-block U is made fast on the under side of the horizontal arm of said angle-iron. A scale is indicated on the vertical arm of the angle-iron T to determine the set of the gage-block U, and the gage as a whole is vertically adjusted to be high or low in proportion to the weight desired in the cut-out butter-cakes, the scale-mark for the weight being set even with the upper side of the adjacent frame-bar, as shown in Fig. 4.

In practice the tub is packed full of butter and slicked off at the top with a wire, after which it is positioned on table E and fastened in place. The frame R with crossed wires Q being set in place and secured, the gage is adjusted to the desired elevation and hand-wheel M operated to elevate platen F

by means of the gearing above specified. The loose tub-bottom and mass of butter thereon being forced upward by the movement of the platen said mass is vertically divided by the crossed wires in the aforesaid frame. The vertically-cut butter having ascended as high as gage-block U, the machine is stopped and said butter horizontally cut from the mass by means of a wire, the result being a series of exposed angular cakes of butter having predetermined proportions and weight. The butter-cakes being removed, the above-described operations are repeated from time to time until all of the butter in the mass has been divided into cakes of predetermined proportions and weight.

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

1. A butter-cutting machine comprising a supporting-frame, a table on the frame, a vertically-movable platen having a depending shank extending through the table central of the same, means in connection with said frame and shank for actuating the platen, a tub on said table having vertical kerfs, means for holding the tub in place, a loose bottom in the tub on said platen, an upper tub-fitting frame, and crossed wires in the latter frame engaging the tub-wall kerfs.

2. A butter-cutting machine comprising a supporting-frame, a table on the frame, a vertically-movable platen having a depending shank extending through the table central of the same, means in connection with said frame and shank for actuating the platen, a tub on said table having vertical wall-kerfs, means for holding the tub in place, a loose bottom in the tub on said platen, an upper tub-fitting frame, crossed wires in the latter frame engaging the tub-wall kerfs, and a horizontal gage having a vertical scale-arm adjustable between the aforesaid tub and said upper frame thereon.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CHRISTIAN GLAUS.

Witnesses:
N. E. OLIPHANT,
B. C. ROLOFF.