3 Sheets--Sheet 1.

B. K. PRICE.

Machines for Making Metallic Moldings.

No. 125,691. Patented April 16, 1872.

Fig. 1.

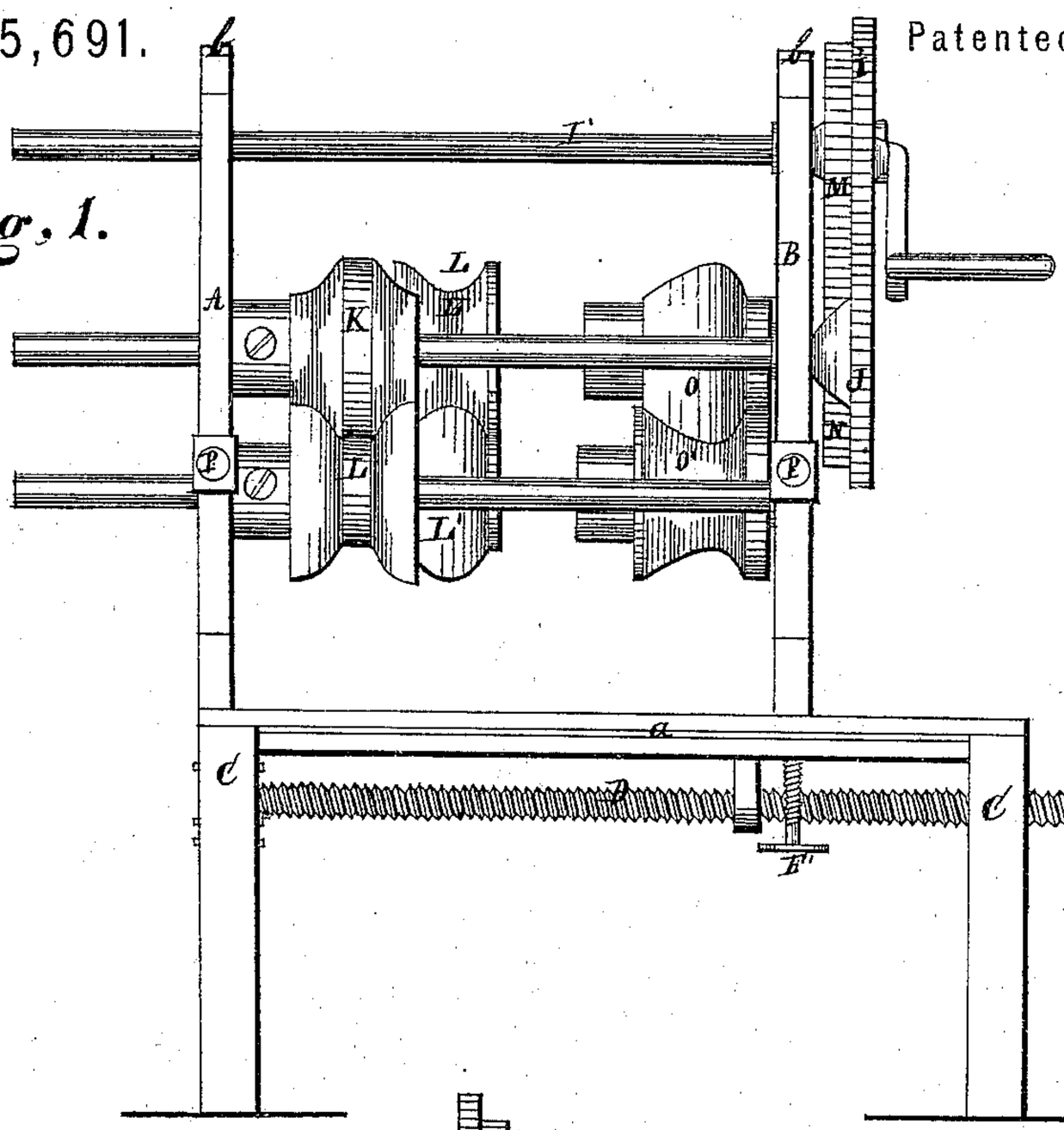
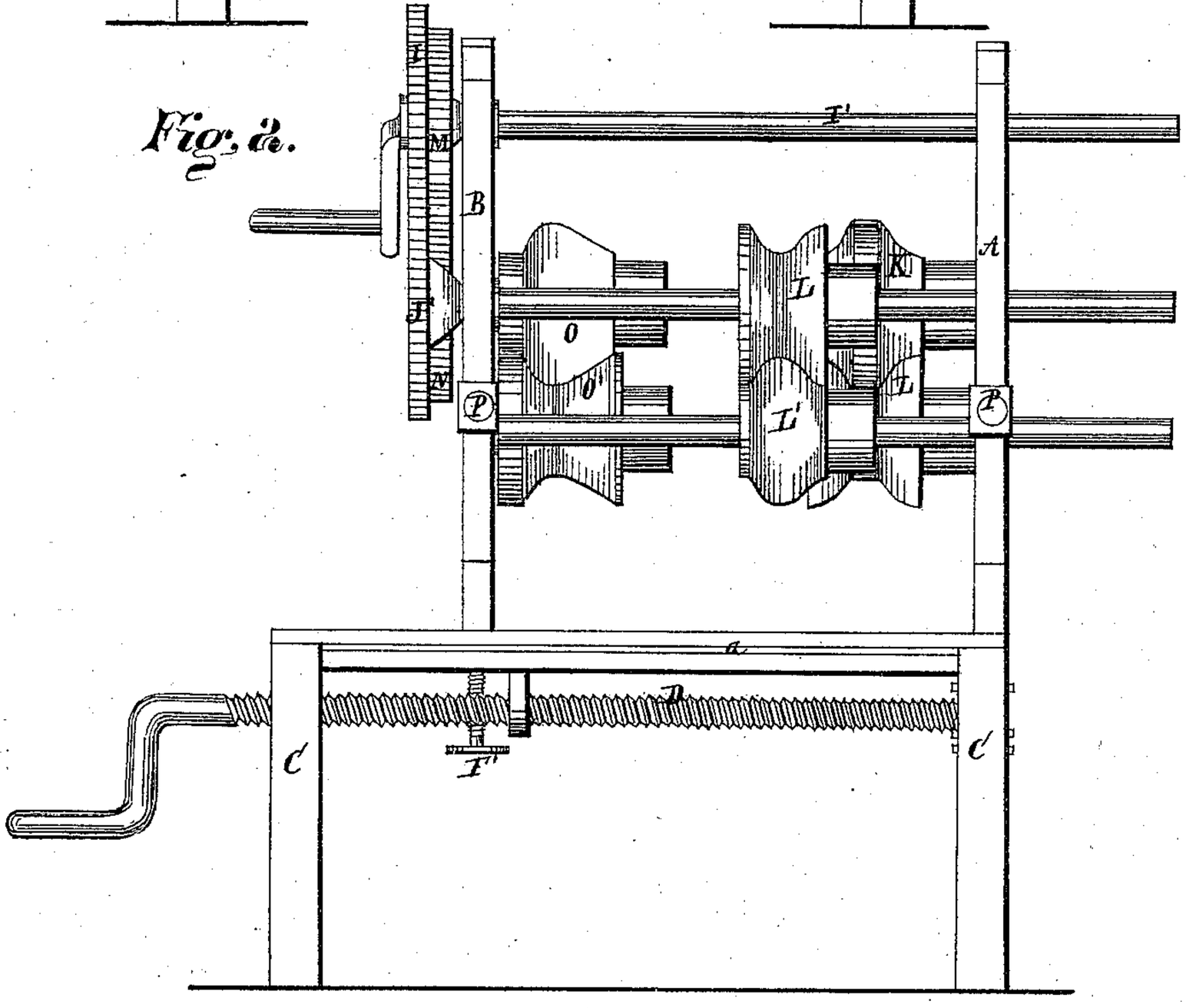


Fig. 2.



Witnesses..
W. G. Glass
D. L. Humphrey.

Inventor.
B. K. Price.
Per Burridge & Co.
Attys

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Fig. 3.

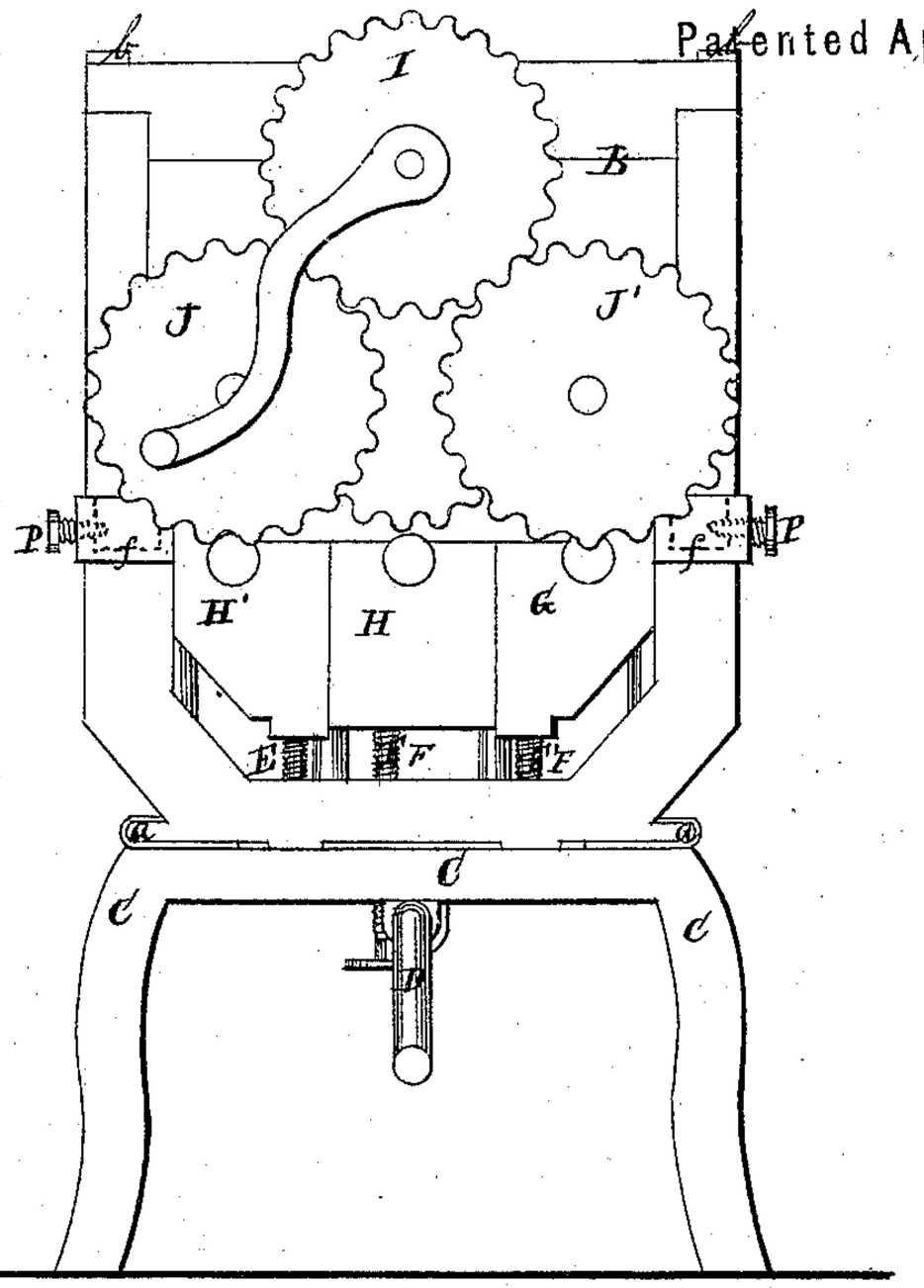
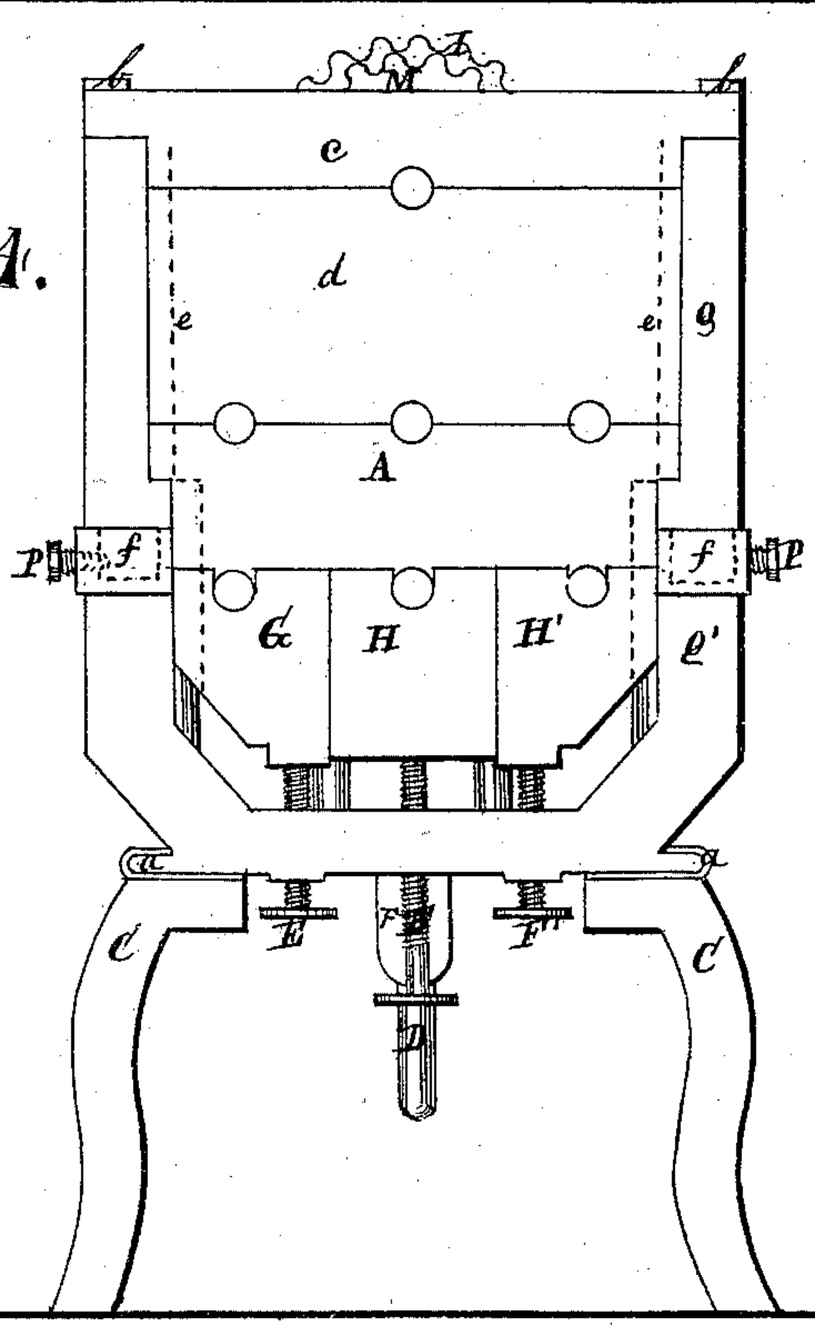


Fig. 4.



Witnesses.
W Glass
D L. Humphrey,

Inventor.
B. K Price.
Per. Burridge & Co
Attys

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS)

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Fig. 5.

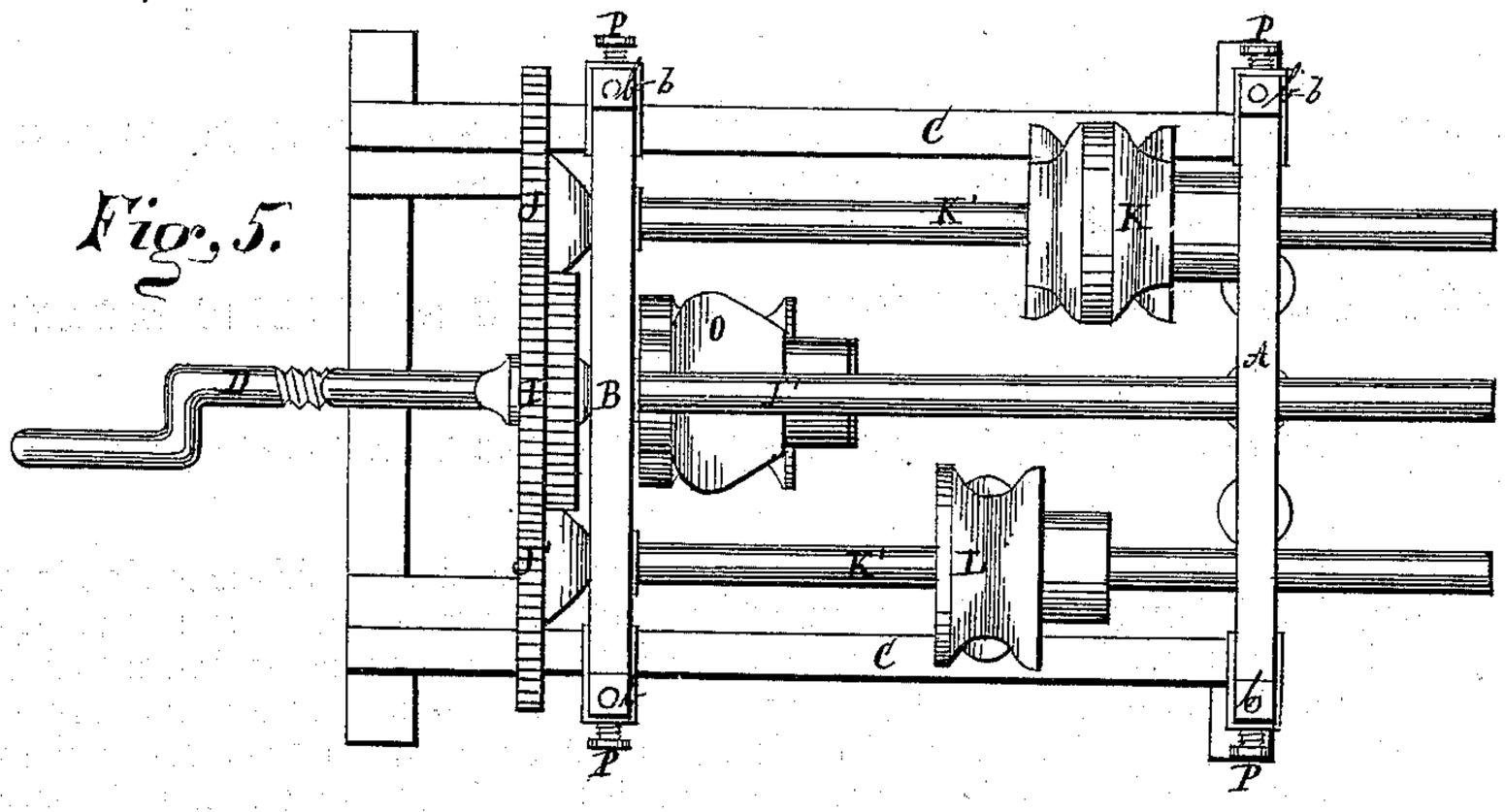
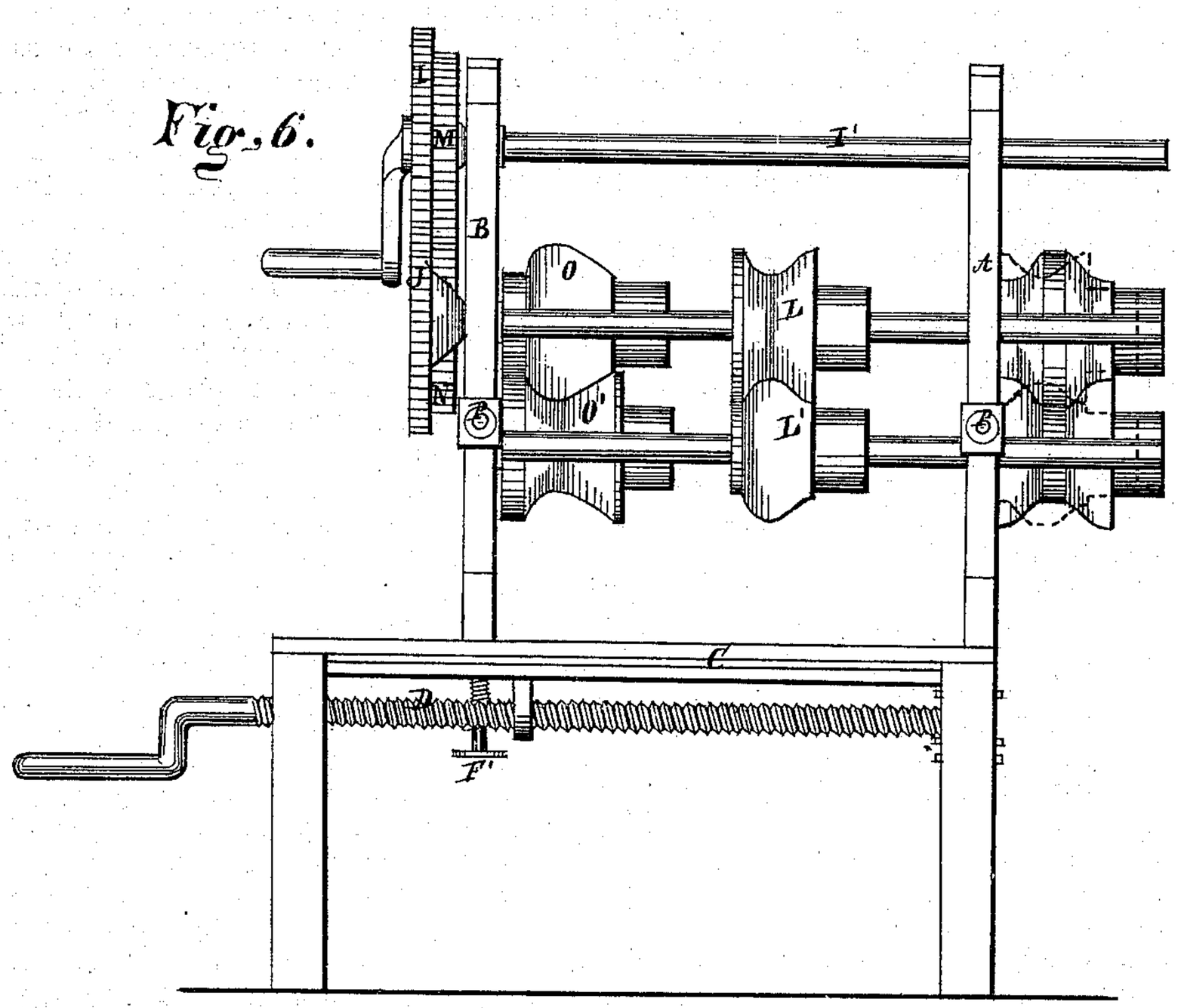


Fig. 6.



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UNITED STATES PATENT OFFICE.

BENJAMIN K. PRICE, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF AND CALVIN CARR, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR MAKING METALLIC MOLDINGS.

Specification forming part of Letters Patent No. 125,691, dated April 16, 1872.

To all whom it may concern:

Be it known that I, BENJAMIN K. PRICE, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Machine for Making Metallic Moldings; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawing making part of the same.

Figure 1, Plate 1, is a side view of the machine. Fig. 2 is a view of the opposite side of Fig. 1. Fig. 3, Plate, 2, is an end view of the machine. Fig. 4 is a view of the opposite end of Fig. 3. Fig. 5, Plate 3, is a plan view. Fig. 6 is a view of the same side as that of Fig. 2, showing a different arrangement of the rolls.

Like letters of reference refer to like parts in the several views.

SPECIFICATION.

The nature of this invention relates to a machine for making metallic moldings; the object of which is to make circular, curved, or straight moldings in various patterns with the same set of rollers, at less expense, and sooner than can be done in the ordinary way.

The following is a more full and complete description of the above said invention: In the drawing, A and B represent the heads of the machine, which are attached to the frame C, the head A being stationary, while the head B is movable in the way *a*, Figs. 3 and 4, by means of the screw D, which has its bearings in the head A and frame C. E, F, and F′, Fig. 4, are screws for adjusting the bearings G, H, and H′ for the purpose of raising or depressing the lower section of rolls, the shafts of which have their boxes therein, so as to adapt said rolls to the thickness of the metal to be molded. I is a driving-wheel on a shaft, I′, working in the gear-wheels J and J′ on the shafts of the rollers K and L. On the inner side of the driving-wheel I is a gear-wheel, M, which operates a like wheel, N, on the shaft of the roller O. These rolls are adjustable on their shafts, and are secured thereto by means of set-screws, thereby admitting of said rollers being moved nearer together or further apart; or the sets of rolls may change places according to the size and style of the forms of molding to be made.

The operation of this machine is as follows: A sufficient number of rolls are adjusted in a proper manner to mold the metal as desired, a sheet of which is taken and the end thereof introduced between the rolls on the side of the machine. The wheels I and M, operating the wheels J, J′, and N, rotate the rollers, thereby running the metal through the whole number of sets of rolls. In case the thickness of the metal sheets varies, the lower section of rolls may be raised or lowered as necessary by means of the adjacent screws E, F, and F′, thereby adapting the position of said rolls to the thickness of the metal. Any number of rolls may be used, it depending on the width of the molding. The head B, operated by the screw D, may be drawn in the ways *a* to or from the head A, as required by the width of the plate. Circular or curved, as well as straight molding, may be made by this machine. When a circular or curved molding is desired the head B is drawn near to the head A, carrying the shafts bearing therein to the position shown in the drawing, thereby protruding said shafts through the head A sufficiently to allow of the rolls being placed thereon, which may be taken off the shafts from between the heads for that purpose by unscrewing the bolts *b* and removing the section *c* and *d* of the head, which run on slides, as indicated by the dotted lines *e*, Fig. 4, and the screws P loosened, which secure the tenons of the side Q of the upper section of head in mortises in the side Q′ of the lower section, as shown by the dotted lines *f*, Figs. 3 and 4, and the entire upper sections removed, thereby allowing the rolls to be easily removed. The several sections composing the head are now replaced, and the rolls taken off are placed upon the protruding shafts outside of said head, as shown in Fig. 6. The metal, cut in circles, or segments of a circle, is then introduced between said rolls at the end of the machine and subjected to the same compression as the straight molding. Rolls, arranged in the manner as described, admit of many changes of position, by which a great variety of molding can be made by the same set of rolls, and which, however, is not the case with the rolls in ordinary use, where each style of molding requires a special set of rolls, they not being susceptible of any change in position, as

those of my machine. Each of the rollers K, L, &c., may consist of several sections—that is to say, each member of the molding forming the roll may be a distinct or separate piece and slipped upon the shaft side by side. In this way the style of the molding can be varied, as each piece can be placed in a different relation to the other, as the character of the molding required may be, thereby producing a variety of styles by means of the same rolls, which is much less expensive than to construct a single roll having a single style of molding.

Claims.

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

1. The movable head B and stationary head A, consisting of the parts *c d* and Q Q′, as constructed and arranged in relation to each other, and in combination with the frame C and screw D, in the manner as described, and for the purpose set forth.

2. The arrangement and combination of the movable heads B and stationary head A, adjustable journal-boxes H, H′, and G, adjusting-screws E, F, and F′, frame C, screw D, and rollers K L, O O′, and L′ L′, in the manner as and for the purpose specified.

B. K. PRICE.

Witnesses:
W. H. BURRIDGE,
D. L. HUMPHREY.