

(No Model.)

R. W. PERRY.
DRAWER.

No. 327,104.

Patented Sept. 29, 1885.

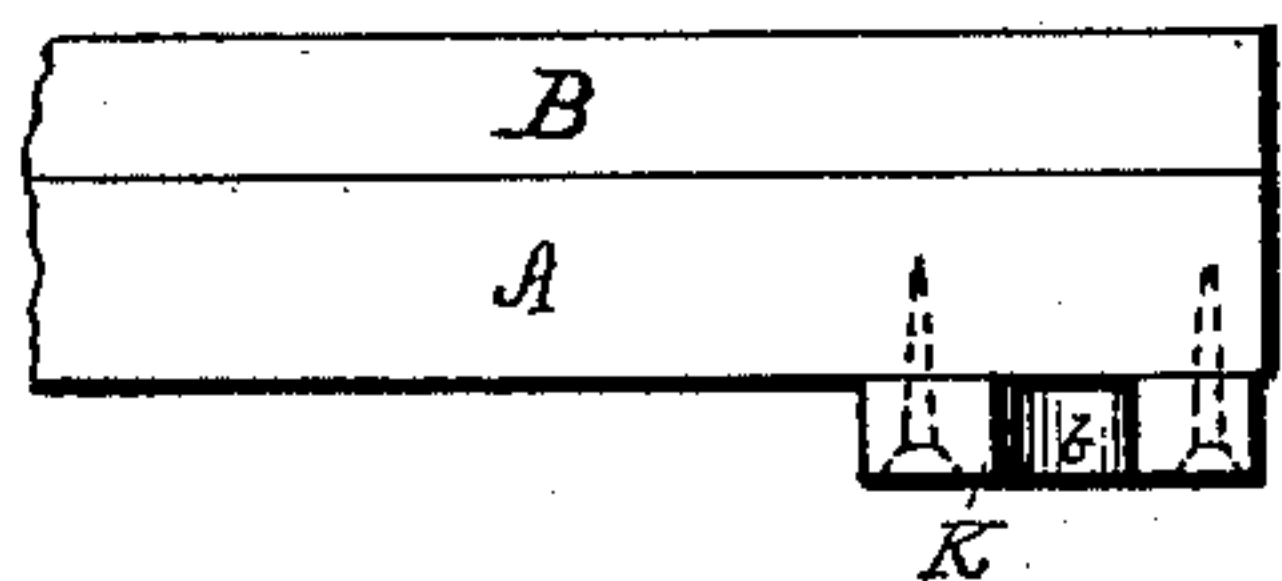
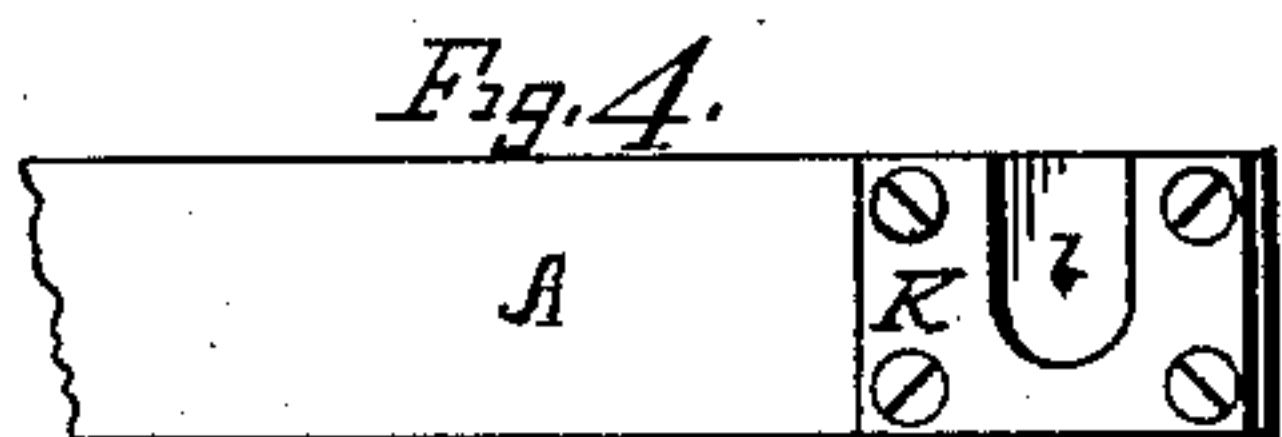
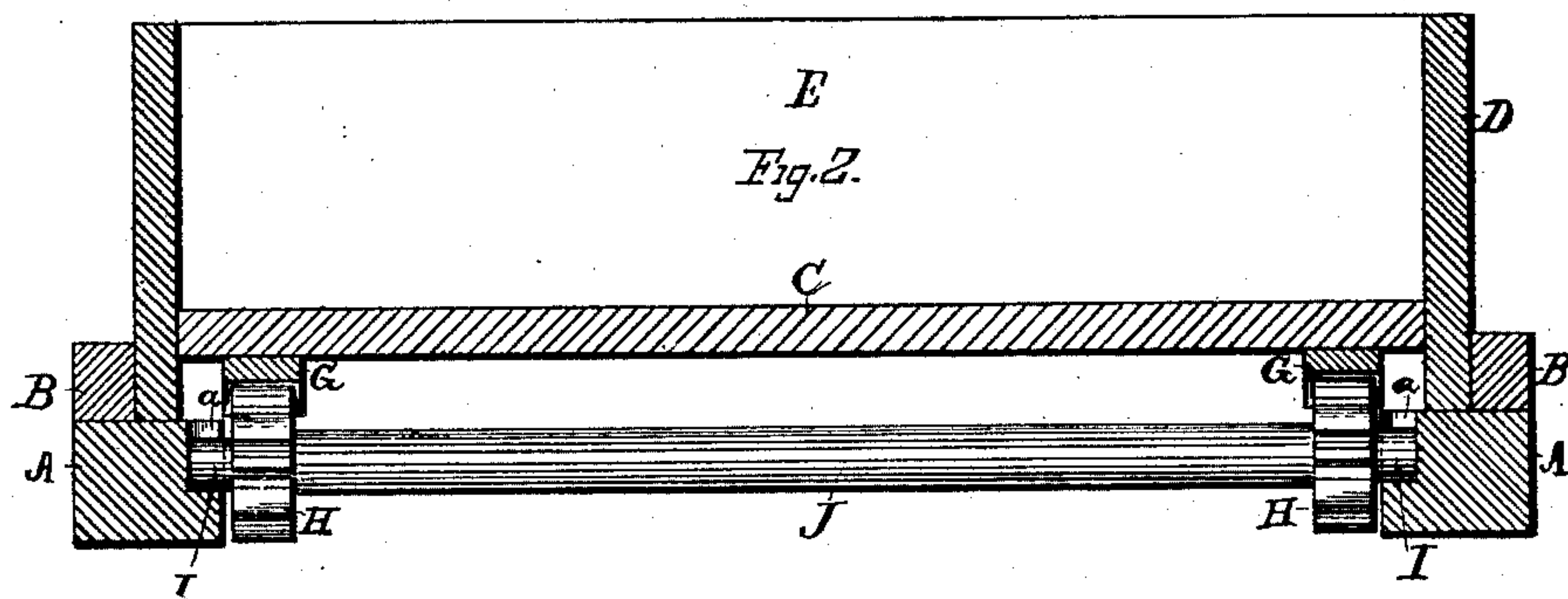
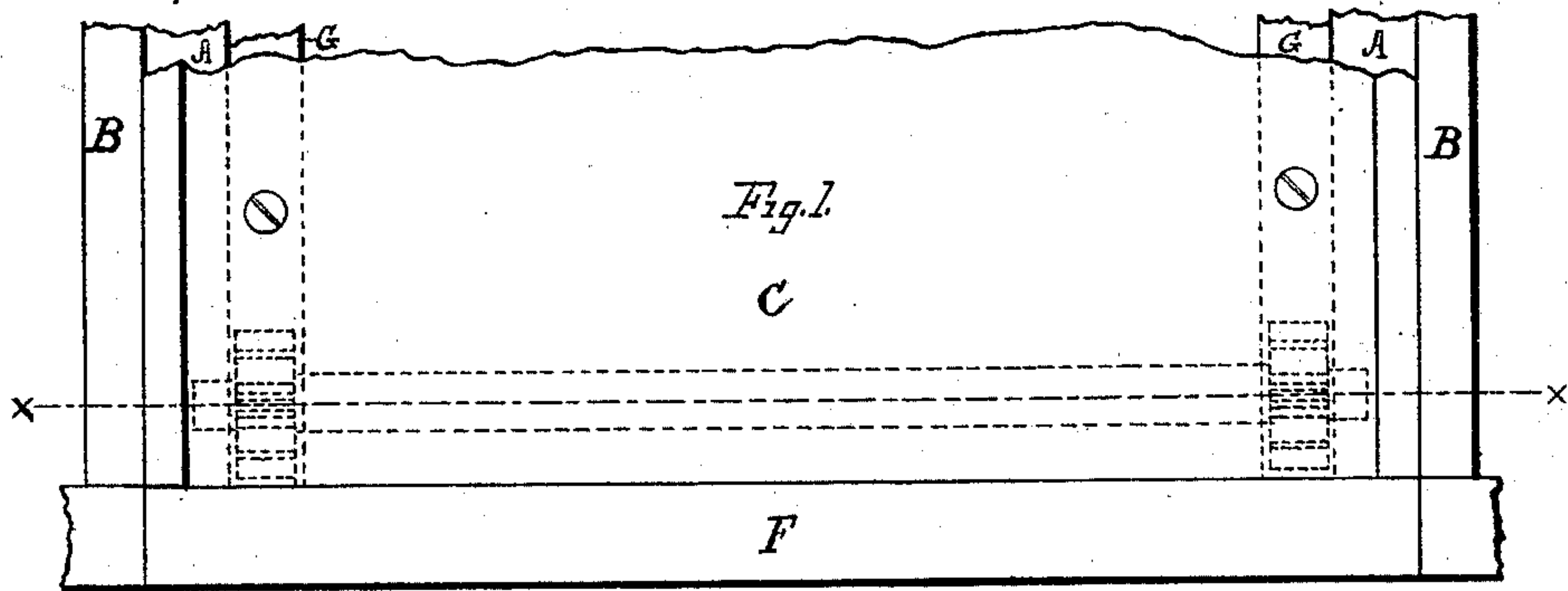


Fig. 5.

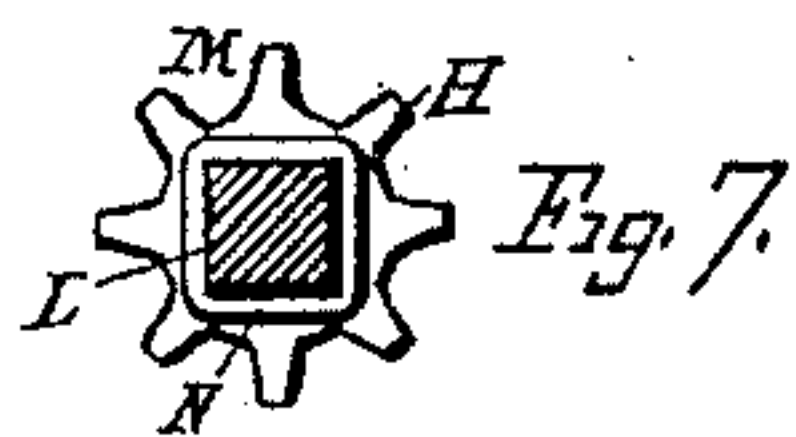
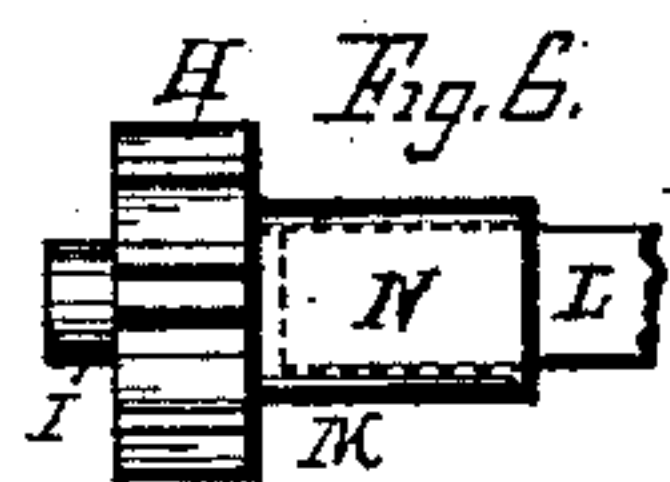
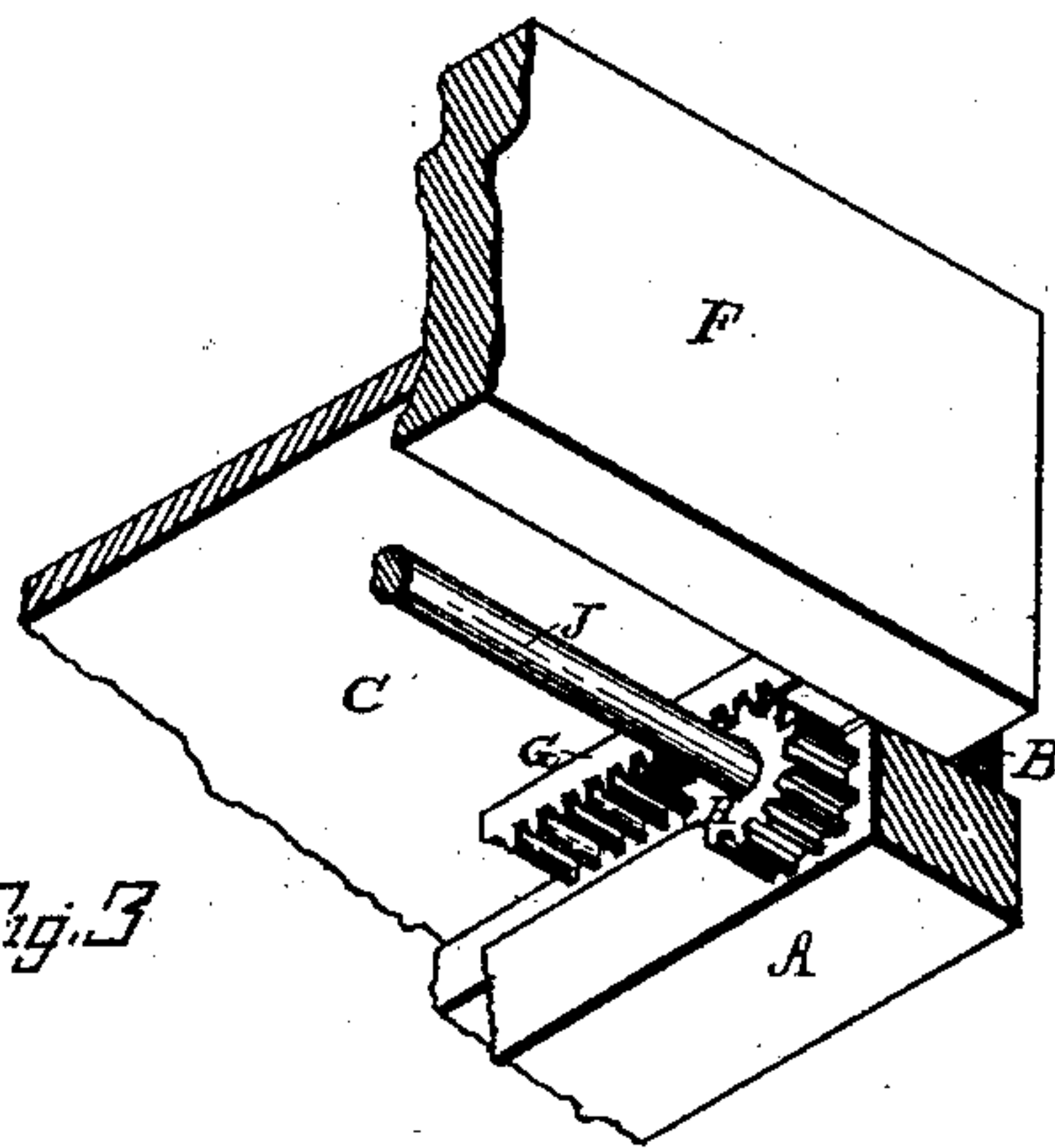


Fig. 7.



Witnesses.
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UNITED STATES PATENT OFFICE.

REUBEN W. PERRY, OF SAUNDERSVILLE, MASSACHUSETTS.

DRAWER.

SPECIFICATION forming part of Letters Patent No. 327,104, dated September 29, 1885.

Application filed January 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, REUBEN W. PERRY, of Saundersville, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Drawers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a top or plan view of a section of a drawer. Fig. 2 represents a vertical section on line *xx*, Fig. 1. Fig. 3 is a perspective bottom view of a part shown in Figs. 1 and 2. Figs. 4 and 5 represent a slight modification in the construction of the parts shown in Figs. 1, 2, and 3, as will be hereinafter more fully described, and which parts represented by Figs. 1, 2, and 3 represent one part of my invention when used in combination with the invention shown and described in Letters Patent granted to Enos B. Johnson May 25, 1869. Figs. 6 and 7 represent a combined gear, journal, and socket-piece, the same constituting the other part of my invention, as will be hereinafter more fully described.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists, first, in a combined gear, journal, and socket-piece for use in combination with racks for operating drawers, as will be hereinafter more fully described; and, second, in the combination, with the journals of a shaft provided with gears, one at each end, for operating the racks of a drawer, of slotted bearings, as will be hereinafter more fully described.

In the drawings, the part marked A represents the ordinary stays or supports of a drawer, and B B the side rails or guide-pieces resting thereon, and between which the drawer slides or runs. C represents the bottom of the drawer; D, the sides, E the back, and F the front.

To the under side of the bottom C of the drawer are arranged two parallel rack-bars, G G, into which mesh the cog-gears H H, which are securely fastened to the journal ends I of

the shaft or connecting-spindle J. The same construction as thus described is found in the Johnson patent herein referred to, and as an improvement on the said Johnson invention journals I are dropped into slots or bearing-openings *a a*, cut down from the top of the side supporting-pieces, A; but, if preferred in any case, metal pieces K, having bearing-holes *b*, may be screwed or fastened to the inner side of the drawer-supporting pieces A, as indicated in Figs. 4 and 5 of the drawings, and said pieces may be held in place with one or more screws, as may be found necessary, in which case the bearings would be all inside of the pieces A, and which arrangement would probably be desirable when applying the invention to drawers already in use, as it obviates the necessity of cutting out the bearing-slots *a a*. Of course it will be understood that with such an arrangement the gears will be placed nearer together, so that the journal-shafts may be made shorter, thereby passing readily between the inner sides of the supporting-pieces A A. Again, the metal bearing-pieces K may be cut somewhat longer than the diameter of the gears H, for the purpose of allowing the holding-screws to be inserted after the shaft and its gears and bearing-pieces are slipped into place.

As another improvement on the said Johnson invention, whereby its application to use is greatly cheapened and rendered more convenient, the gear H, with its journal I, is cast in one piece, M, the gear having a square socket, N, on its inner side, say about half an inch in length, to receive the square end of a wooden connecting-piece, L, as a substitute for the shaft J, as indicated in Figs. 6 and 7 of the drawings.

By casting the gear, journal, and socket all in one piece, and using a square rod of wood for a shaft, the gears can be readily attached, so that the cogs will be in line, and that, too, at a comparatively small expense, and when so constructed and once in place the parts are not liable to become disarranged or broken.

I am aware of the patent granted to E. B. Johnson, May 25, 1869, and hereby disclaim the invention described and shown in said patent.

Having described my improvements in drawers, what I claim therein as new, and desire to secure by Letters Patent, is—

1. A combined gear, journal, and socket-piece, M, consisting of the parts H I N, for use in operating drawers, substantially as described.

2. The combination, with the journals of a

shaft provided with gears, one at each end, for operating the racks of a drawer, of slotted or open bearings *a a*, substantially as shown and described.

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Witnesses:

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