No. 879,350. PATENTED FEB. 18, 1908.

J. W. WOOLEY.

SHUTTER WORKER.

APPLICATION FILED SEPT. 25, 1907.

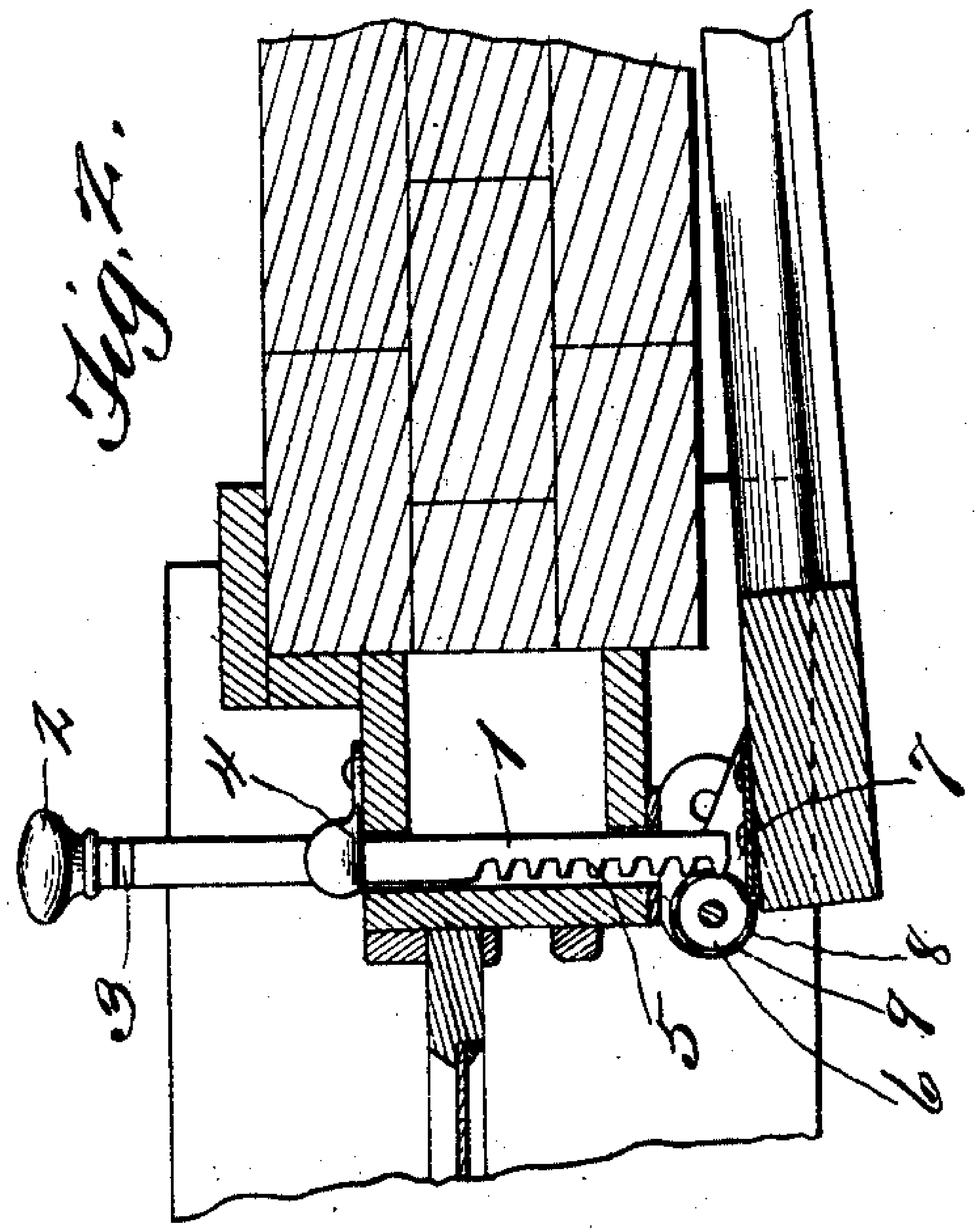

Fig. 2.

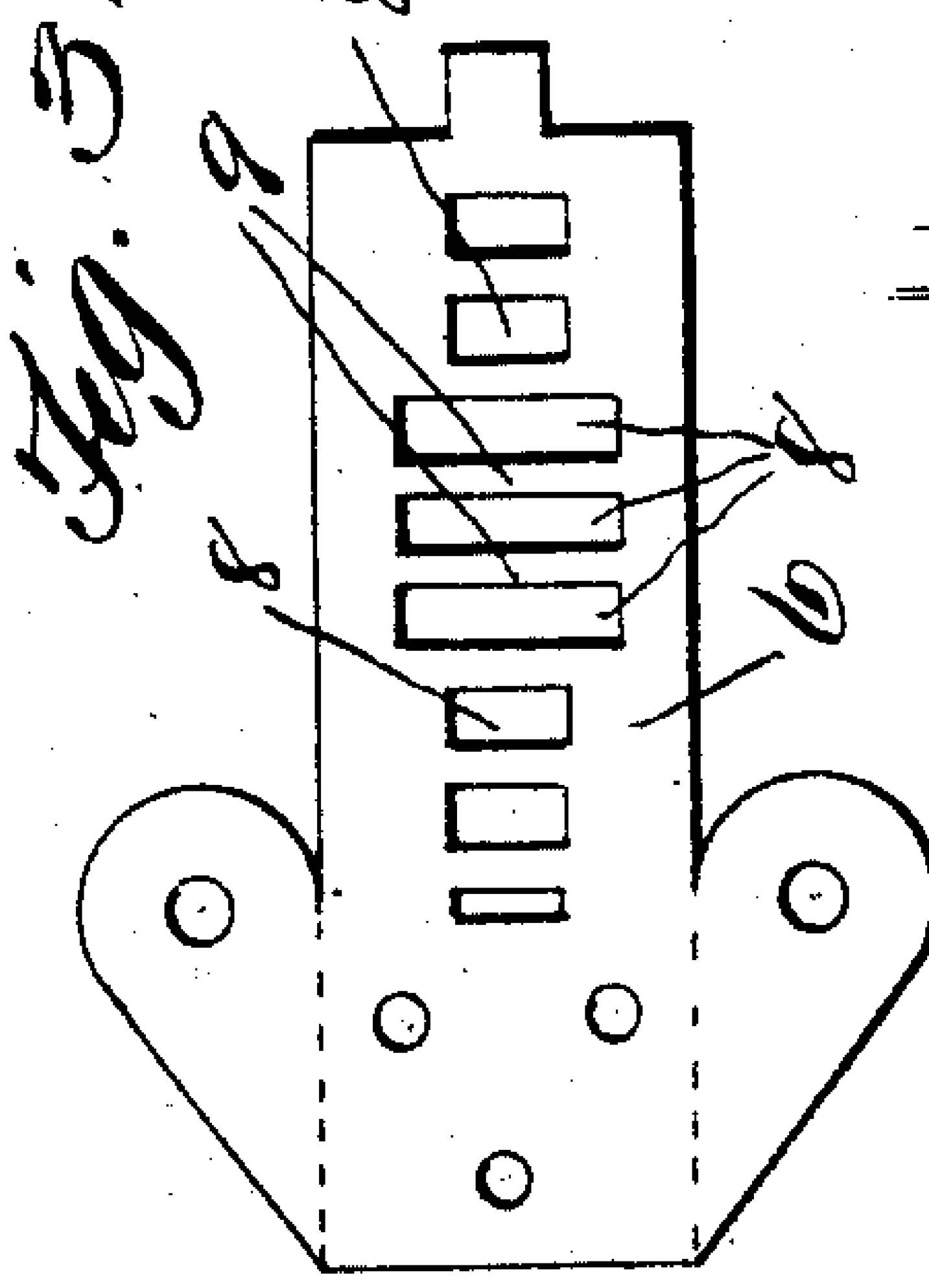

Fig. 3.

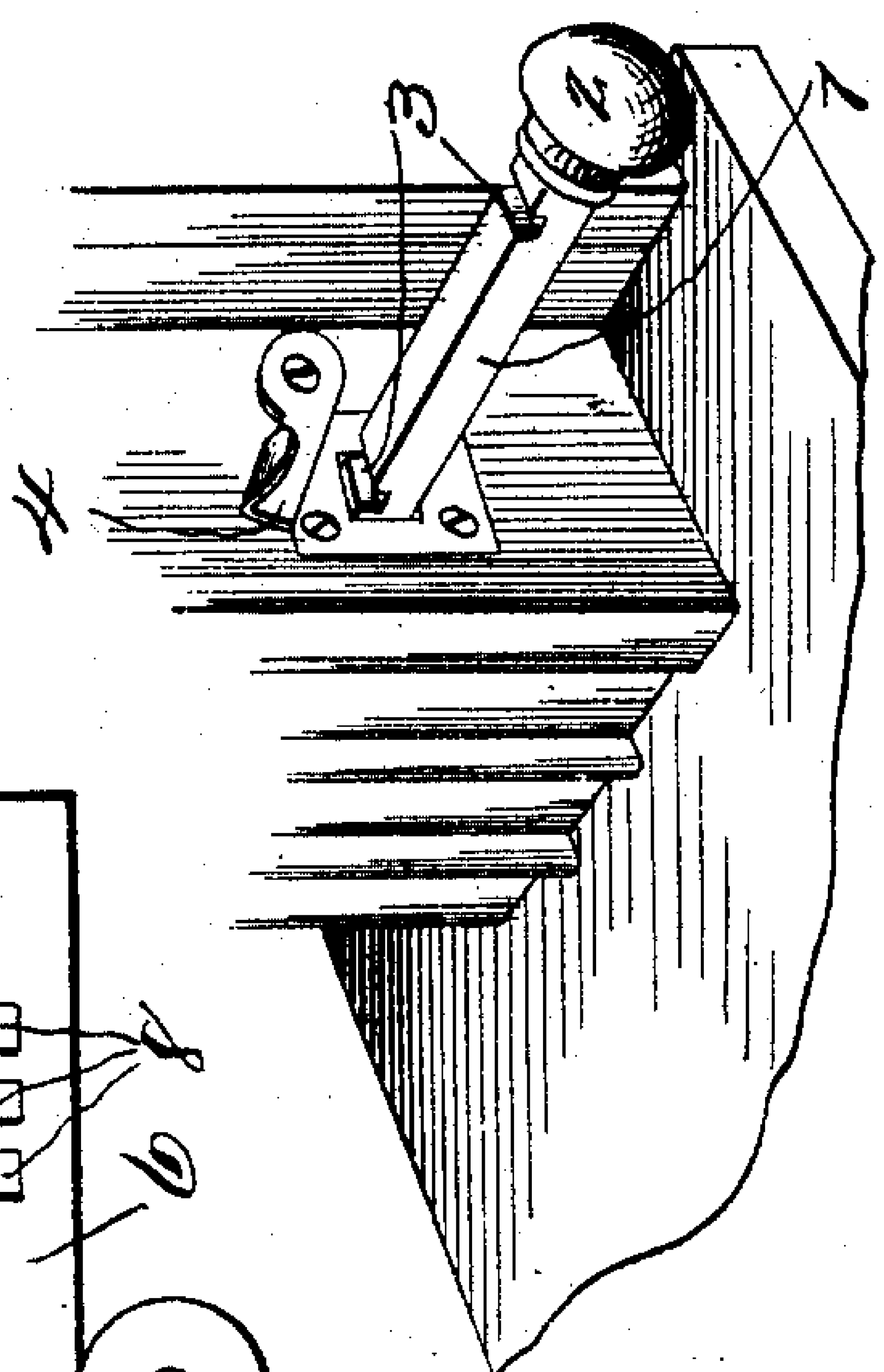

Fig. 4.

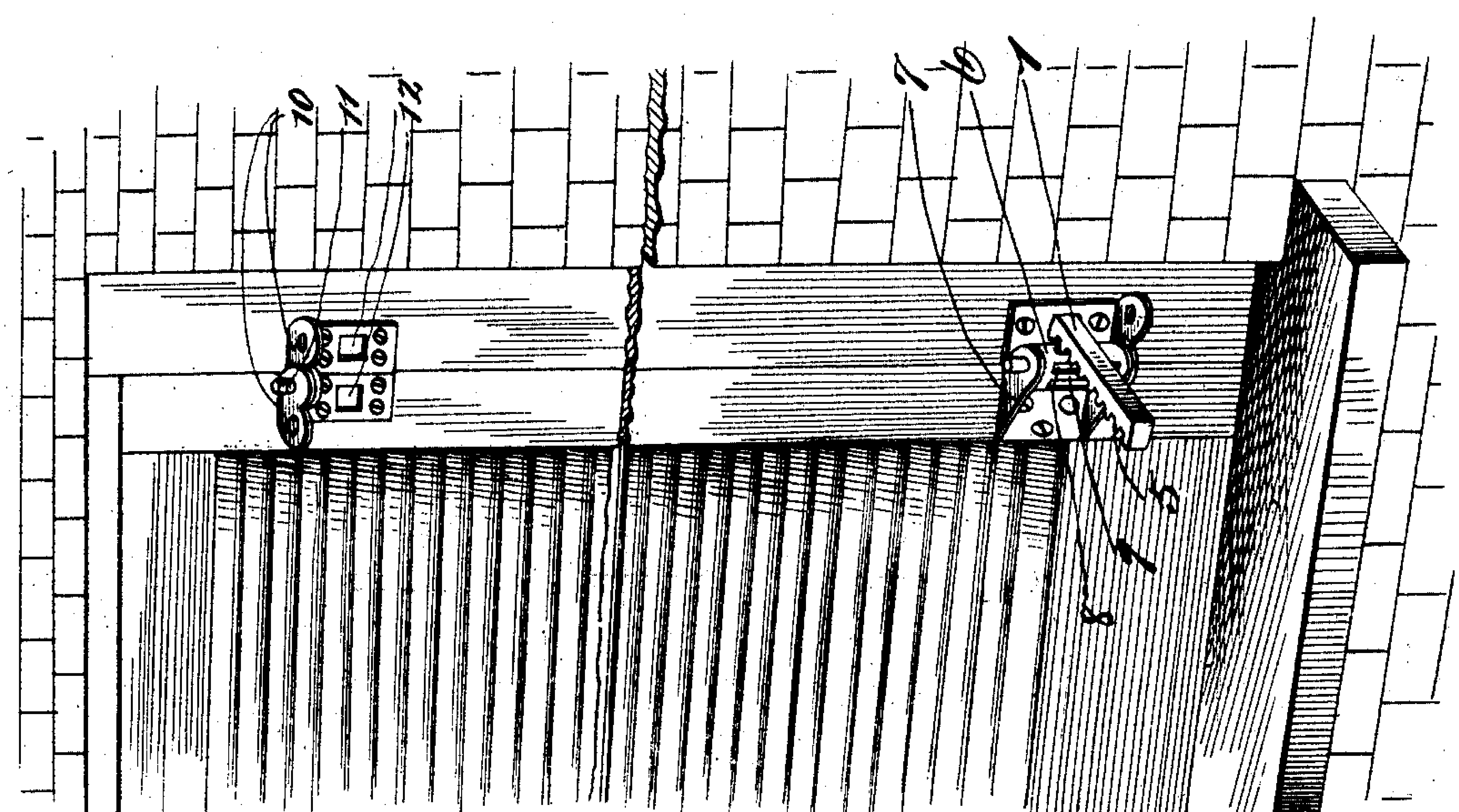

Fig. 1.

Witnesses

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SHUTTER-WORKER.

No. 879,350. Specification of Letters Patent. Patented Feb. 18, 1908.

Application filed September 25, 1907. Serial No. 394,474.

To all whom it may concern:

Be it known that I, JOHN W. WOOLEY, a citizen of the United States, residing at Norfolk, Berkley Station, in the county of Norfolk and State of Virginia, have invented a new and useful Shutter-Worker; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to improvements in shutter-workers, and has for its object to provide a simple, inexpensive and durable device of this character adapted to be applied to any kind of shutter and which will enable the shutter to be opened or closed from the interior of the house and without touching the windows.

In the drawings, Figure 1 is a side elevation of my invention shown applied to a shutter. Fig. 2 is a detail sectional view taken through the operating bar. Fig. 3 is a perspective view of the upper hinges. Fig. 4 is a view showing the blank from which, one member or leaf of each, of the lower hinges is formed.

Referring to the drawings, 1 designates an operating bar, having a knob 2 arranged on the interior of a house, and extending outwardly to the exterior thereof. The inner end of the bar 1 is provided with notches 3 which are engaged by a locking member 4 for holding said bar in its desired adjustment, as will be clearly understood. The outer end of bar 1 is provided with notches or cogs 5, which engage a cylindrical member 6 which is integral with the hinge 7 of the shutter. The cylindrical member 6 is hollow as shown and is provided with vertical slots 8 which form cogs 9.

It will be seen that by thrusting the bar outwardly the shutters will open and by drawing it inwardly the same will be closed.

The upper portion of the shutter is provided with a pair of L-shaped hinges 10 which are connected by a pivot bar 11.

The hinges 10 are provided with openings 12, so that they can be used to receive the operating bar 1, when desired.

As disclosed particularly by Fig. 4, each lower hinge member 6, 7 is formed from a piece of malleable metal or blank in its initial form rectangular in general outline, with apertured lateral extensions or wings 13 at or near one end, it being produced in its longitudinal center with the rectangular or oblong perforations or slots 8 forming the prospective cog-like members 9, said slots and cog-members being both above noted. Said blank or metal piece is, rolled upon itself from the left-hand end into cylindrical form said end having a projection or extension 14 which is inserted or tucked into a slot 15 also formed in the blank for its reception, said extension or projection being finally clenched or bent down upon the opposite surface of the blank. The wings or extensions 13 of said metal piece or blank, are next bent down at right angles to their initial position, and thus caused to form heads or ends for the resulting cylinder-member 6 whose apertures receive the hinging or pivoting pintle of the other hinge member, as will be readily appreciated.

What is claimed is,

A device as described, embracing a hinge one of whose members or leaves, is formed from a blank, rectangular in general outline with apertured lateral extensions or wings at or near one end, said blank also having transverse slots in its longitudinal center and rolled upon itself in cylinder form, with said slots forming cog-like members therein, said wings being bent upon, and forming apertured heads for the resulting cylinder, and a rack bar adapted to engage said cog-like members or slots of said cylinder of said hinge member.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN W. WOOLEY.

Witnesses:

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