

(No Model.)

C. A. BLESSING.
WATER CLOSET.

No. 498,102.

Patented May 23, 1893.

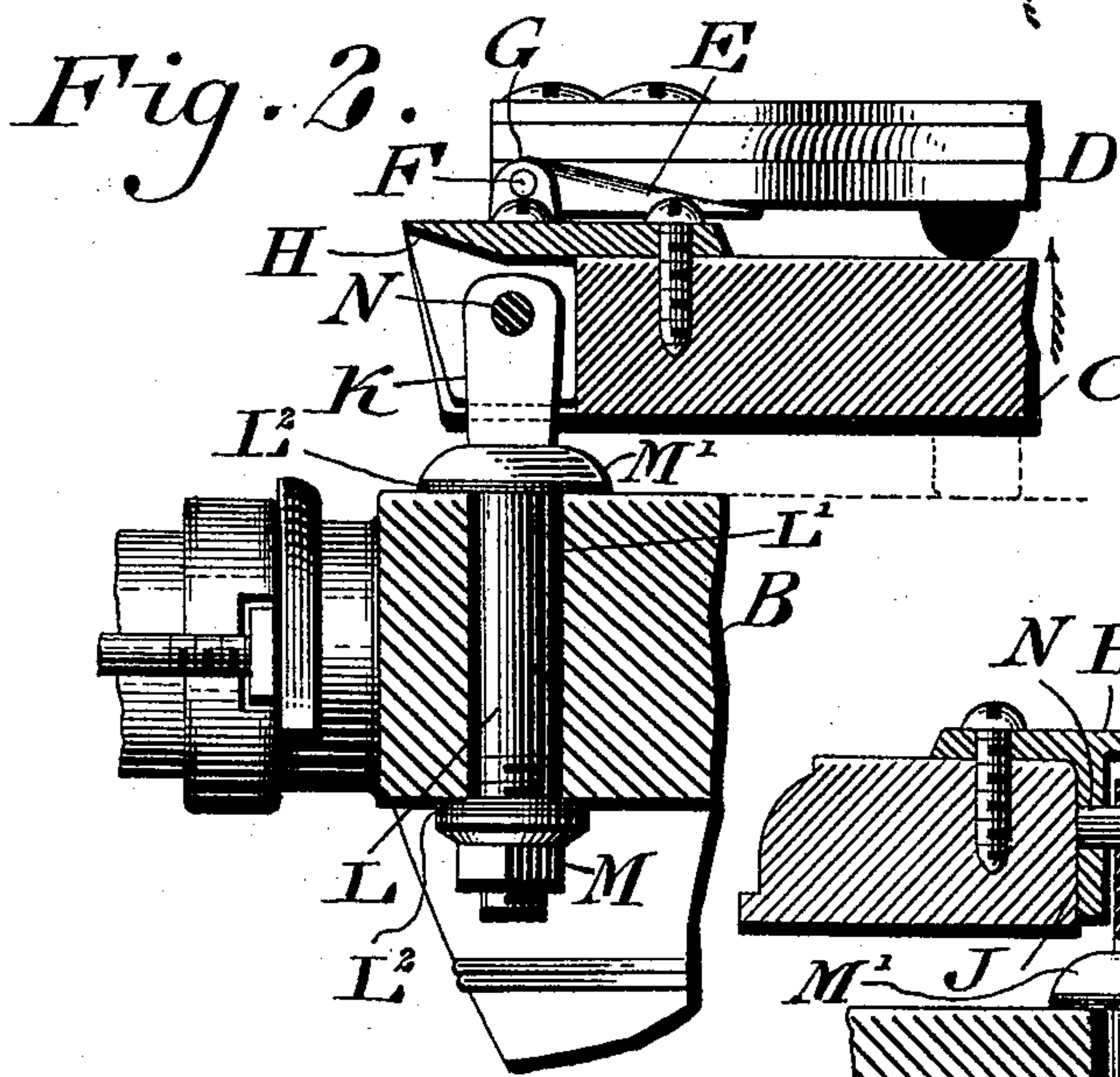
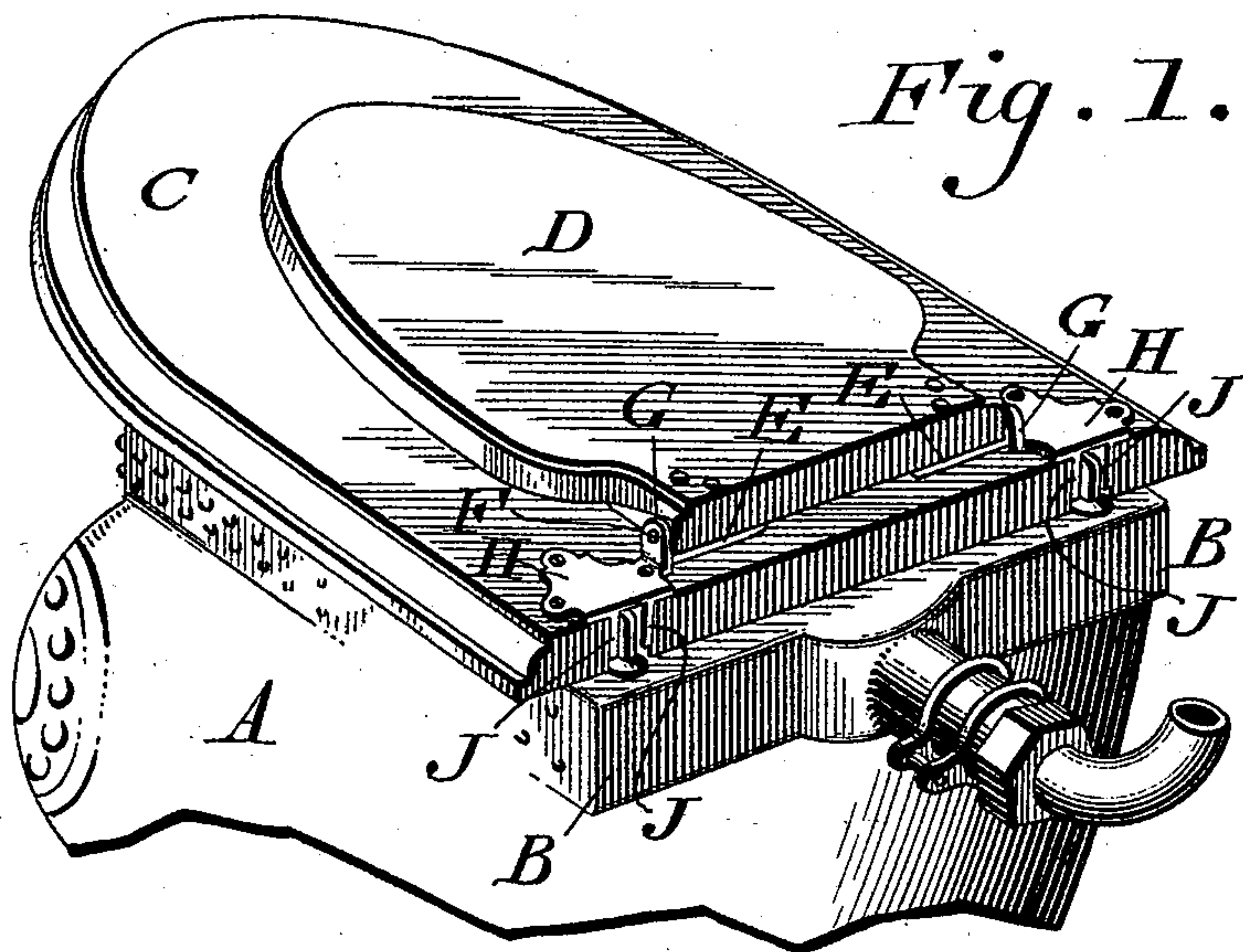


Fig. 3.

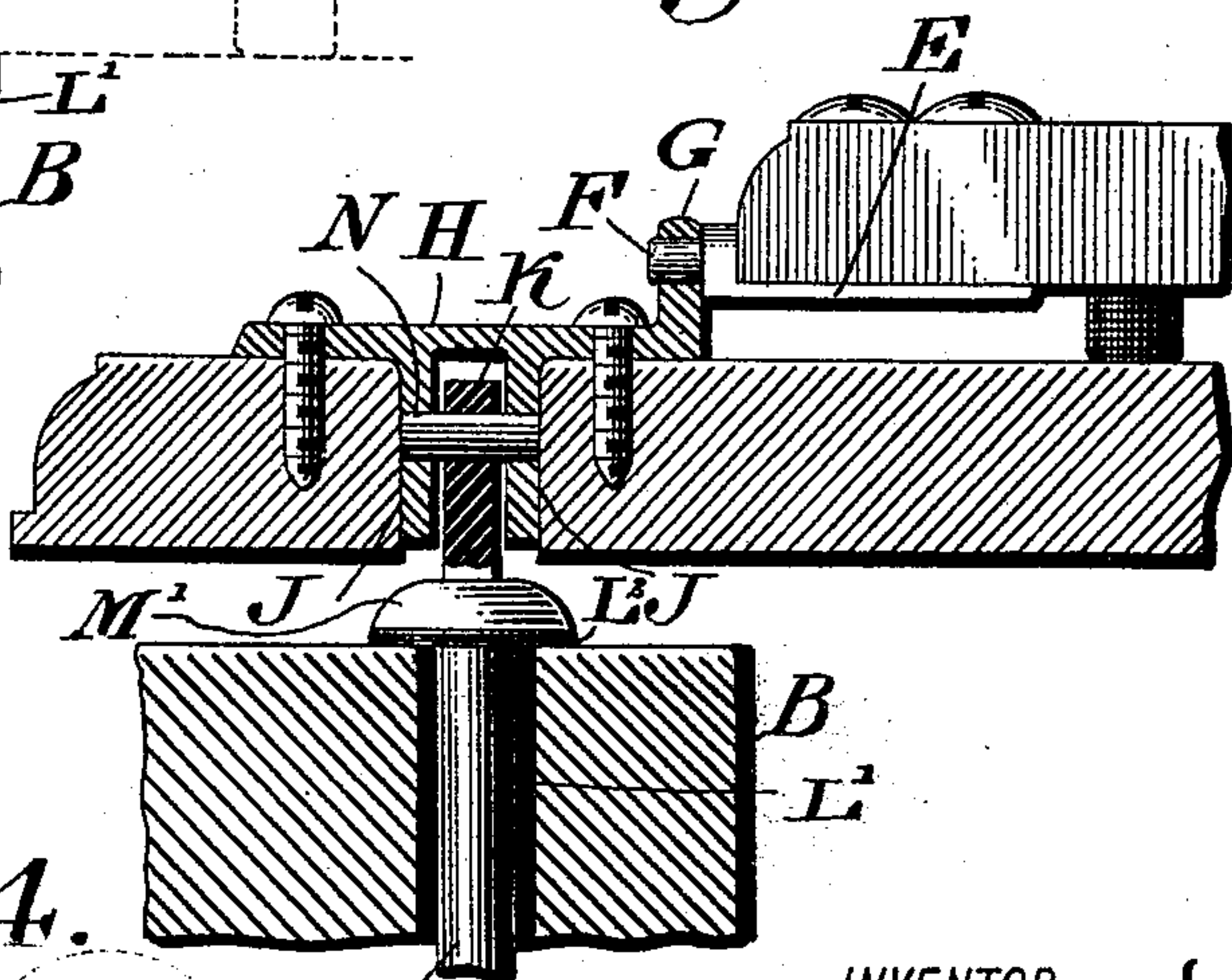
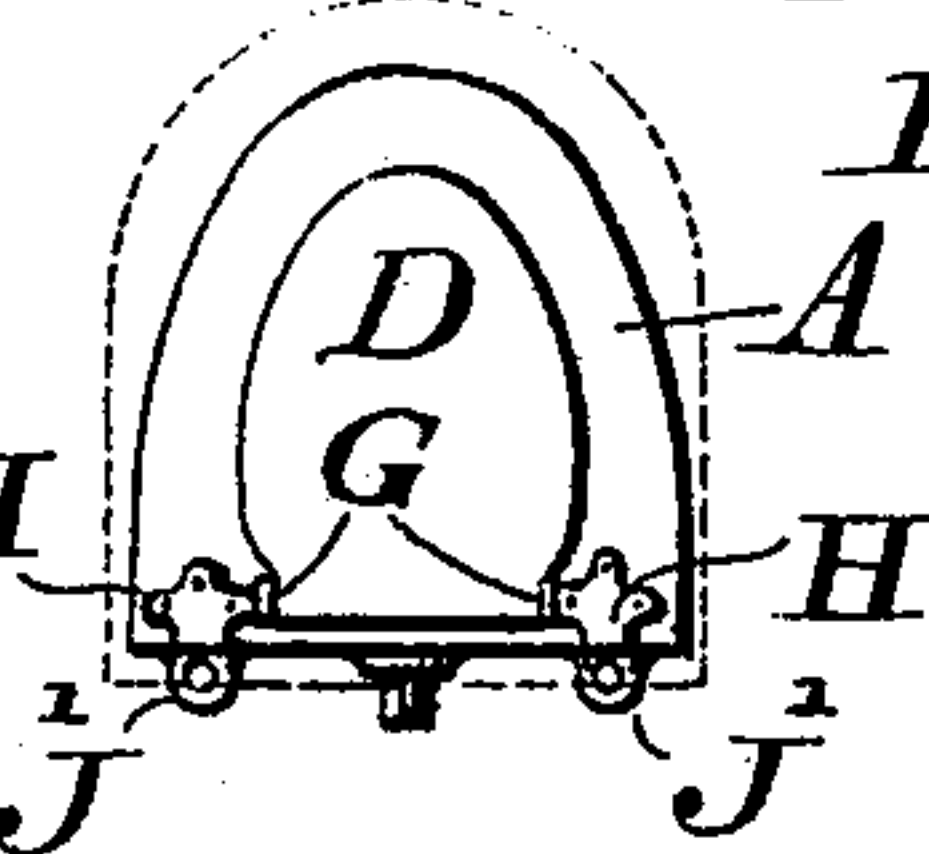


Fig. 4.

WITNESSES:

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WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 498,102, dated May 23, 1893.

Application filed April 28, 1892. Serial No. 430,952. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BLESSING, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Water-Closets, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a water closet, to the bowl of which are directly attached the seat and cover or lid by hinges of novel construction, as will be hereinafter set forth.

It also consists of means for relieving the connecting bolts of strain, and preventing injury to the adjacent portion of the bowl, especially when the seat and cover or lid are carelessly handled.

It also consists of other novel features as will be hereinafter set forth.

Figure 1 represents a perspective view of a water closet bowl embodying my invention. Fig. 2 represents a vertical section of a portion thereof, on an enlarged scale. Fig. 3 represents a section of a portion at a right angle to Fig. 2, and Fig. 4 represents a top view of a modification on a reduced scale.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a water closet bowl which is formed of earthenware, and excepting the features of my invention applied thereto is of usual construction. At the rear of the upper end of the bowl is an outwardly-extending off-set B, in which are vertical openings to receive the screws or bolts L, by which the seat C is connected with the bowl, each of said bolts having at its lower end the nut M, which tightens against the under side of the off-set B, and having at top the shoulder M' which bears against the upper side thereof. Above the shoulder M' is an ear K which enters between the ears J, J, the latter depending from and being cast with or otherwise secured to, the plate H, which is screwed to the seat C, said ears J occupying vertical openings in said seat C. Passing through each of the ears K and J, which together form a knuckle or butt, is a pin N, thus forming a hinge for the seat, each side of which latter is thus provided as seen in Fig. 1.

Encircling the bolts L are bushing pack-

ings L' of soft rubber or other suitable or elastic material, and interposed between the shoulders M' and upper face of the off-set B, and between the nuts M and lower face of said off-set are washers L² of soft metal or other suitable packing material, whereby the bolts may be tightened against the off-set B without injuring the same, and owing to the bushings L' the bolts are provided with cushions which prevent any injurious tendency of the bolts against the walls of the openings in the off-set when said bolts are subjected to strain due to the careless handling of the seat, and of the lid or cover D which is hinged to said seat.

The under sides of the seat and cover are each provided with buffers or cushions of rubber or other elastic material to receive the impact of blows when the seat or cover or both are lowered or dropped, thus preventing the breakage of the bowl, and straining of the hinges. It will also be seen that the pins N are loosely fitted in the ears J and K, and that they are retained in position and prevented from lateral displacement owing to the side walls of the openings in the seat in which said ears are located, as most plainly shown in Fig. 3. Sufficient play is also allowed between the ears K, K', and the ears J, J, thus allowing the seat to expand and contract without causing the same to crack or breaking the closet.

Secured to the cover D at the rear end thereof, are the hinge plates E from which project laterally the pintles or gudgeons F, which enter the ears G, the latter rising from the plates H which are secured to the seat C, thus forming the hinges for the lid or cover.

It will be seen that the ears G are integral with the plates H, and the latter have also the ears J, J, integral with the same, whereby there is a simplification in the construction of the hinges of the seat and cover, besides rendering the same more compact and stronger, reducing the parts and lessening the expense, all of which are advantageous features in articles of this class.

It will be seen that the off-set in Fig. 1 projects rearward of the top of the bowl, as has been stated, and it may be said to form two extensions of the bowl, one for each side, and each having an opening for the respective

bolt L. In lieu of the form of off-set shown in said Fig. 1, which form is more particularly designed for an oval back bowl, I may employ lugs J' as shown in Fig. 4, where a square back bowl is represented, the same being at or near the sides of the bowl and each having an opening to receive the respective bolt L.

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

1. A water closet bowl having off-sets at the upper part of the rear thereof provided with vertical openings, bolts secured in said openings, and having ears at their upper ends, a seat for said bowl, a plate with depending ears in an opening in said seat, and a pin in the openings in said ears of the bolt and plate, said parts being combined substantially as described.

2. A water closet seat having a bowl with openings, a seat and a lid, bolts secured in the bowl openings, plates with ears inserted in said seat and pivotally secured to ears on said bolts, and the lid having journals with bearings in ears on the plates, said parts being combined substantially as described.

3. A water closet bowl having plates connected with the seat thereof, ears rising from said plates, laterally projecting journals on the cover entering said ears, and ears depending from said plates and pivotally connected with ears which rise from bolts which are secured to the bowl, said parts being combined substantially as described.

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Witnesses:

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