

S. A. Chapman.

Hinge.

N^o 73297

Patented Jan. 14, 1868.

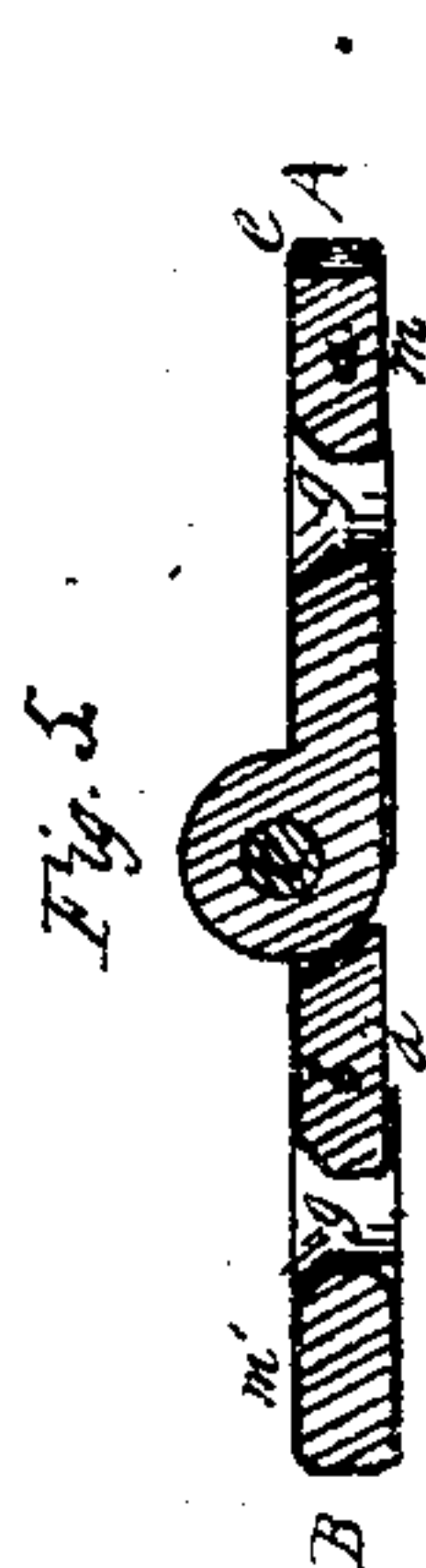


Fig. 4.

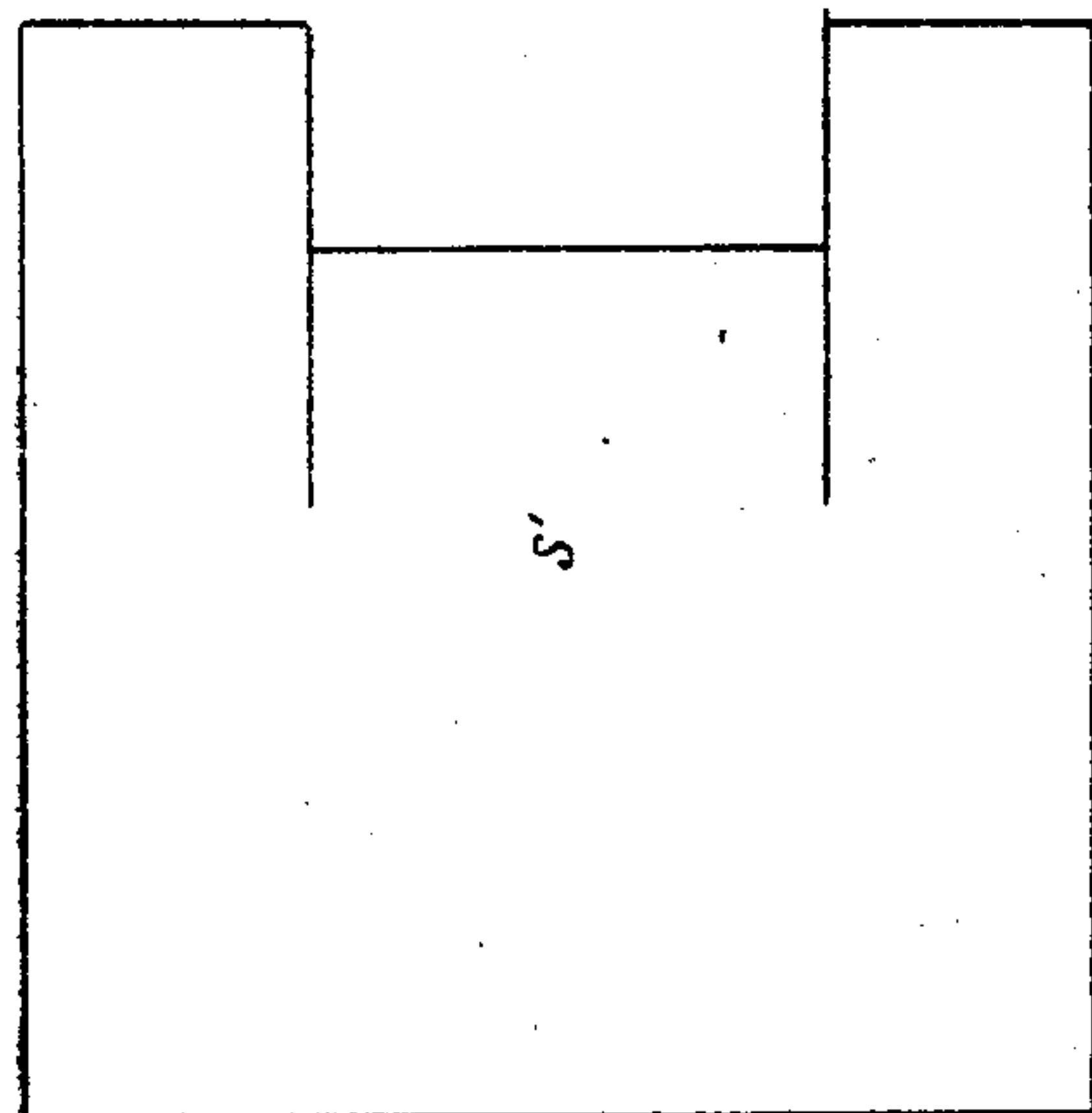
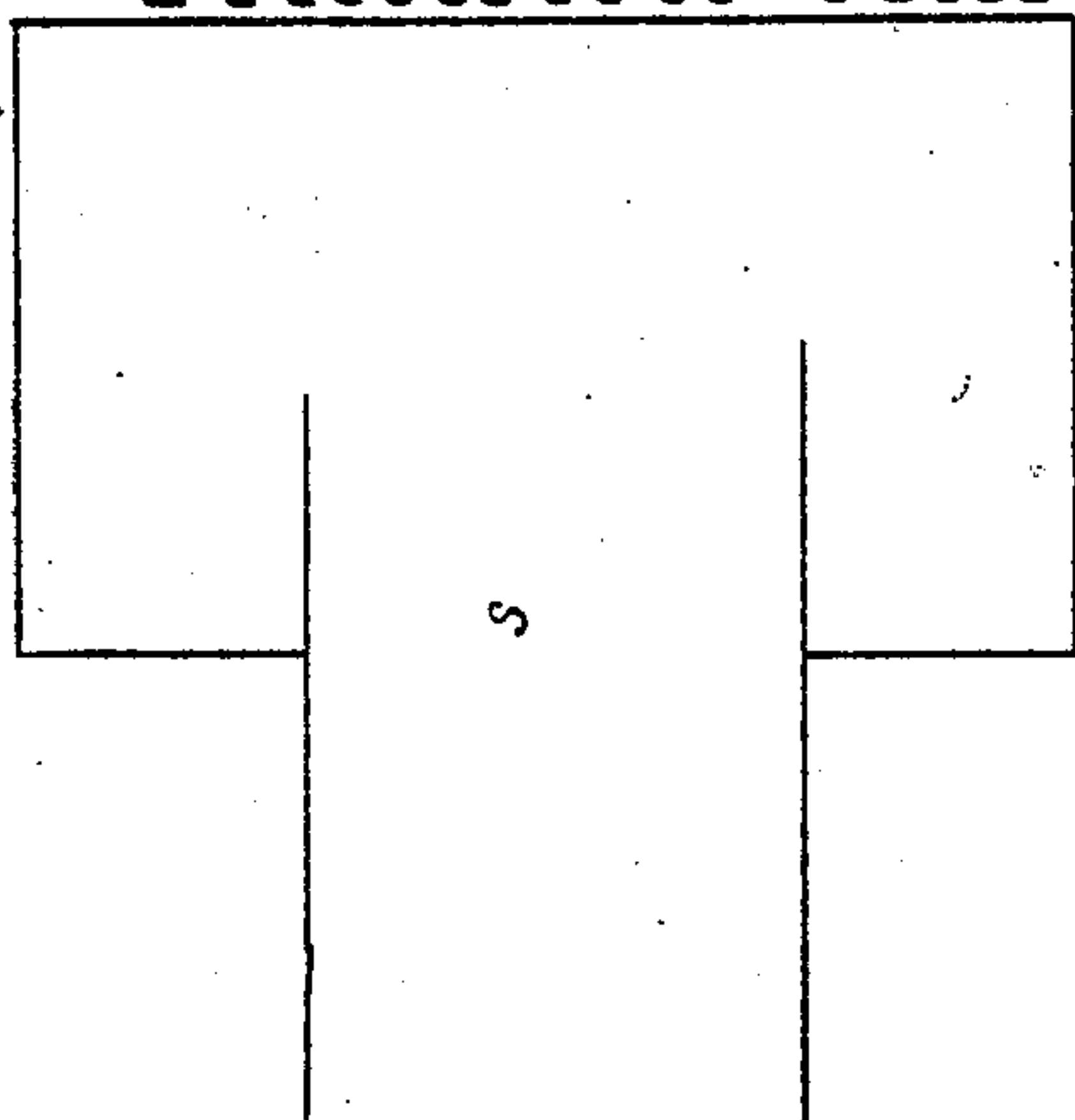


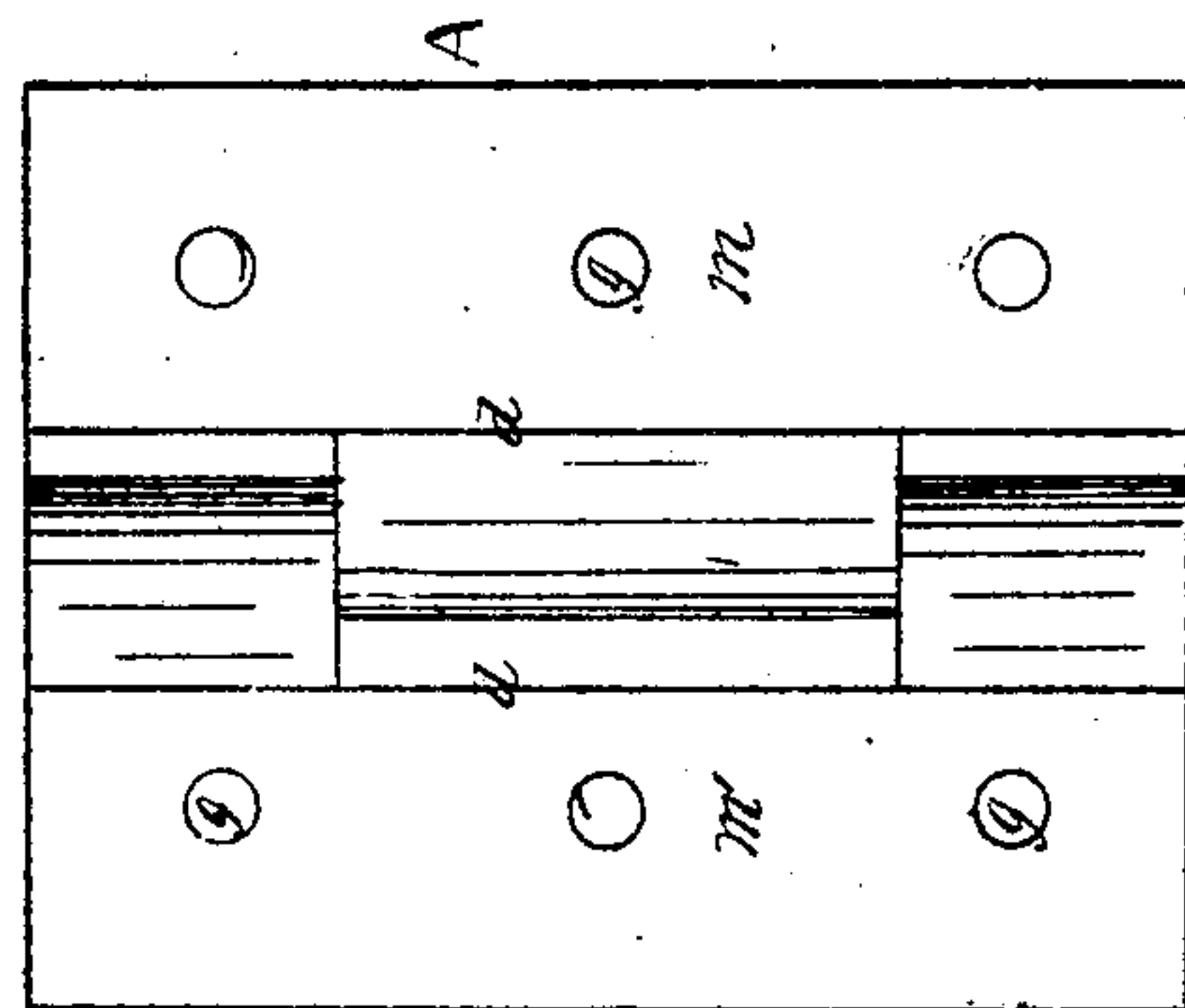
Fig. 1.



Fig. 2.



Fig. 3.



Witnesses:

Attest
Chas. H. Ashton

Inventor:

S. A. Chapman
by his attorney
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United States Patent Office.

SAMUEL A. CHAPMAN, OF WATERBURY, CONNECTICUT.

Letters Patent No. 73,297, dated January 14, 1868.

IMPROVED HINGE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL A. CHAPMAN, of Waterbury, in the county of New Haven, and State of Connecticut, have invented a new and useful Improvement in Hinges, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents an end view of a butt-hinge constructed according to my improvement,

Figure 2 a transverse section of the same,

Figure 3 an inner or under view thereof,

Figure 4 face views of blanks used in covering the hinge in accordance with my improvement, and

Figure 5 a transverse section of a modification of such improved hinge or mode of lapping its covering.

My invention consists in encasing hinges made of iron in sheet-brass wrappers, in such manner as that the latter are immovably and securely connected with the former, and cover and prevent exposure of the iron or interior body of the cased hinge; also, said invention consists in burring or sinking the brass wrappers into the screw-holes of the hinge, for the more perfect attainment of the objects specified.

Referring to the accompanying drawing, A and B represent the two sections or halves of a butt-hinge, the bodies *a b* of which are of iron, as may be also the joint-pin *c*. These bodies forming, when united, an iron hinge, I encase, before fitting them together, in sheet-brass wrappers *m m'*, by, say, taking blanks *s s'*, suitably cut and shaped, as represented, for instance, in fig. 4, to form, on suitably bending the blanks over the faces, longitudinal edges and knuckles of the hinge, and lapping them as at *d*, or at *e*, in fig. 5, a sheathing or covering to such portions of the hinge, and, it may be, securing the same by soldering at the ends and corners, in connection with end-strips or pieces, *f*, of sheet brass. To further prevent exposure of the iron, and to secure or hold the sheet-brass wrappers to their places, after or during the process of bending and pressing the blanks on the iron bodies to form wrappers, I burr or puncture, and sink the portions of the sheet brass, covering the screw-holes *g*, into the latter, as clearly exhibited in figs. 2 and 5, thus forming a close and securely brass-wrapped iron hinge, equal for all purposes to a solid brass hinge, but made at materially less cost, by reason of the difference in price between brass and iron.

By this method of encasing the parts of a hinge in a sheet-brass wrapper or wrappers, there is no necessity for filing up and polishing the surface of the iron, as in plating and soldering, or galvanizing; it is therefore a less expensive operation, whilst a heavier and more durable covering is obtained.

What I here claim, and desire to secure by Letters Patent, is—

1. An iron hinge wrapped or covered on its edges and faces with sheet brass, substantially as described.
2. In iron hinges encased by sheet-brass wrappers, burring or sinking said wrappers into the screw-holes of the hinge, for the double purpose of preventing exposure of the iron, and of holding or securing the wrappers, essentially as specified.

SAMUEL A. CHAPMAN.

Witnesses:

ANSON F. ABBOTT,

BURTON G. BRYAN.