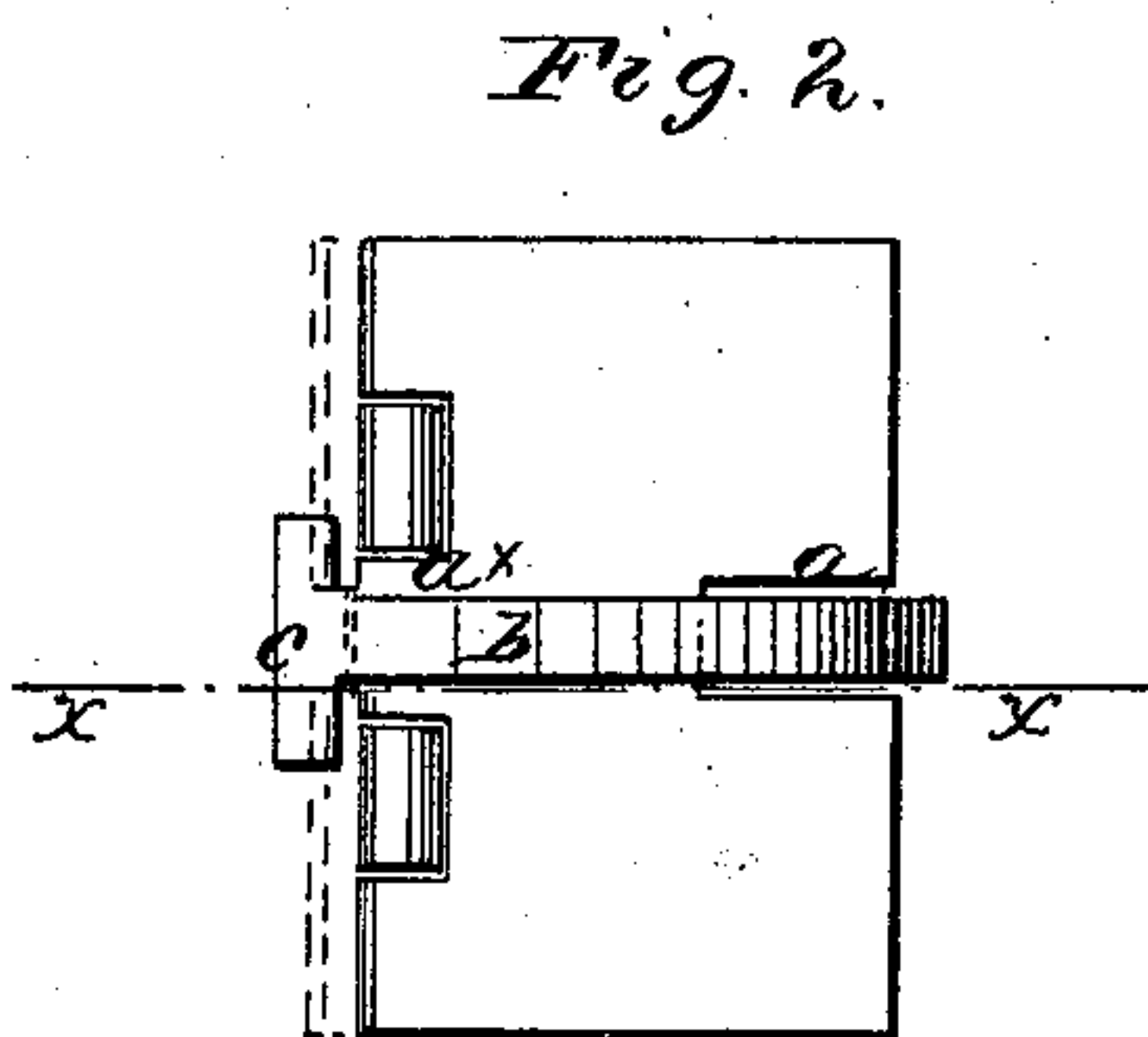
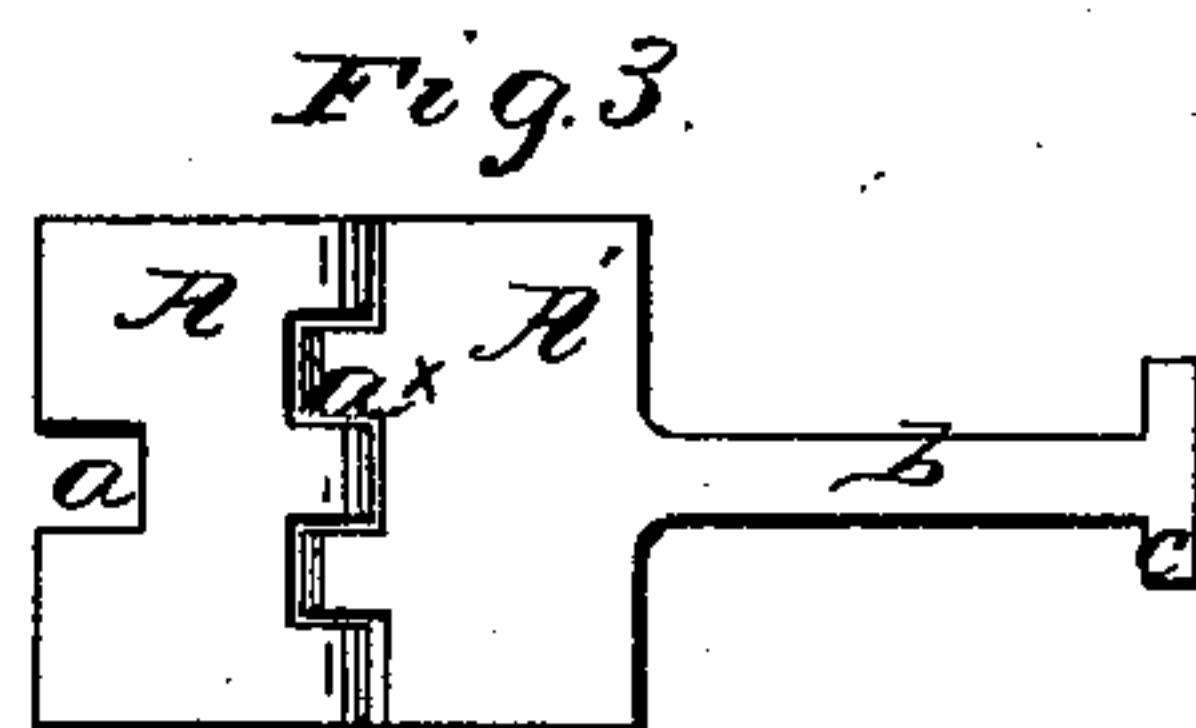
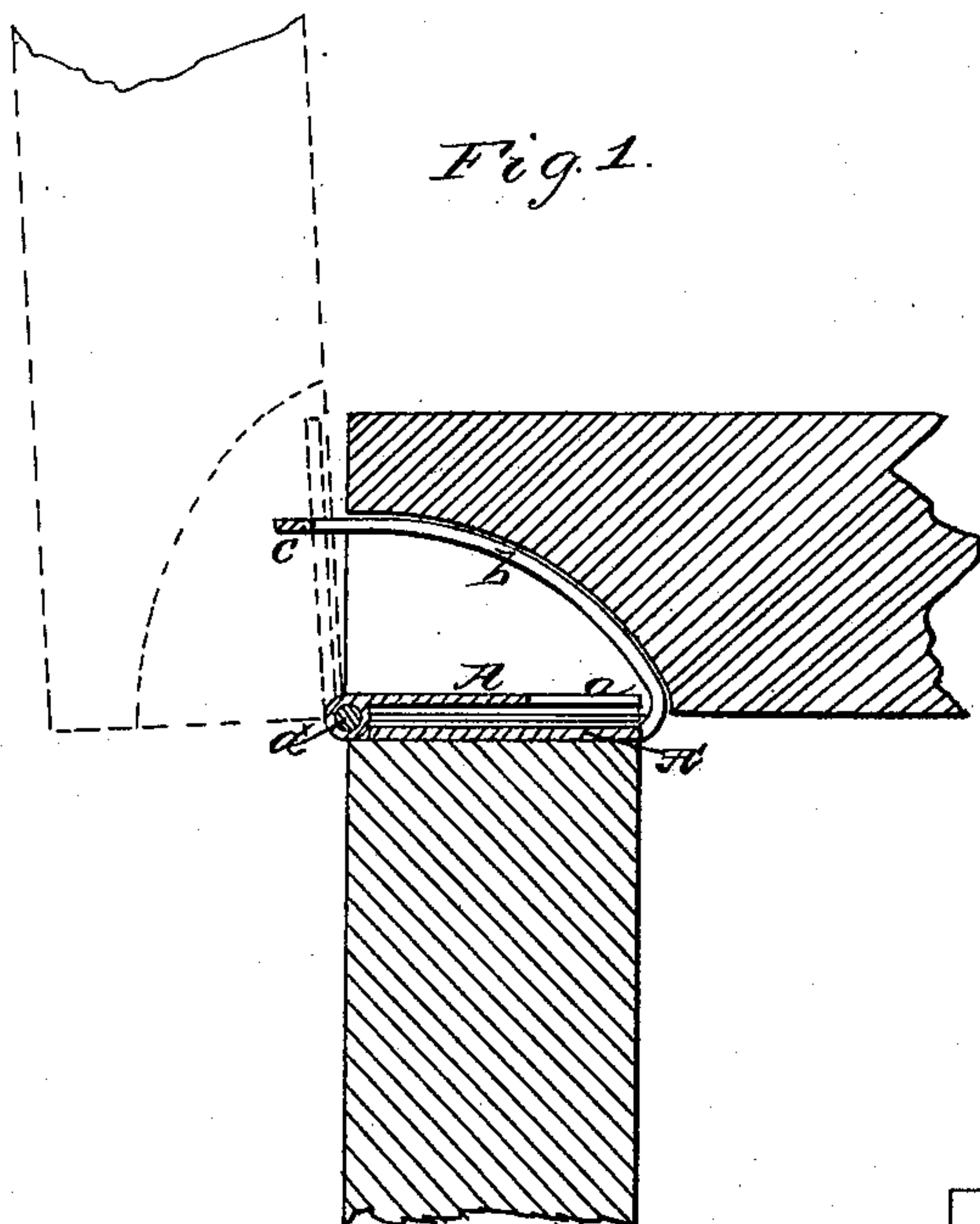


W. Webb,

Hinge.

N^o 43,746.

Patented Aug. 2, 1864.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM WEBB, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
SCOVILLE MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. 43,746, dated August 2, 1864.

To all whom it may concern:

Be it known that I, WILLIAM WEBB, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Hinges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a transverse sectional view of a hinge in an open state, constructed according to my invention, *xx* indicating the plane of section; Fig. 2, a side view of the same in a closed state; Fig. 3, an open view of the same in a partially-finished state.

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

This invention relates to an improvement in that class of hinges which are formed out of a sheet or rolled metal plate, and are commonly termed "butt-hinges."

The invention consists in providing said hinges with a stop, constructed during the process of their manufacture, and in such a manner that a combined hinge and stop will be obtained at a cost not appreciably greater than that of the hinges constructed separately or without the stop.

The invention is designed for those hinges which are to be applied to desk and box lids, and to other articles in which the door or lid is not required to be opened at a distance greater than will bring the leaves of the hinges at or about at right angles with each other.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A A' represent the two leaves of a hinge, which may be connected together by a pintle, *a*^x, in the usual way. These leaves are cut out from a sheet or rolled metal plate, and one of them, A, has a rectangular recess, *a*, cut in its outer edge, said recess being made at the time the leaf is cut out. The other

leaf, A', has a projection, *b*, extending outward at right angles from the center of its outer edge, the end of *b* being provided with a cross-head, *c*. This projection *b* and its cross-head *c* are cut out from the plate simultaneously with the leaf A', and the projection *b* is of such a width that it may fit in the recess *a* of the leaf A, when bent or curved, so as to extend over the outer edge of said leaf, as shown more particularly in Fig. 1. The cross-head *c* is of such a length that it will not pass through the recess *a*, and it will therefore form a stop and prevent the two leaves A A' being spread apart beyond a certain distance, which is designed to be such that the two leaves will be about at right angles with each other, the length of the projection *b* admitting of this, as shown in red in Fig. 1.

The hinges are applied to the article designed for them in the usual way, a recess being made to receive the curved projection *b*, as shown in Fig. 1. Thus by this simple invention a combined hinge and stop are obtained, and without augmenting in an appreciable degree the cost of manufacture above that of a hinge alone.

The invention is capable of very general application, but is chiefly designed for small hinges, such as are used on boxes, desks, and various other articles in which it is desirable to employ stops to control the extent of the movement of a cover, lid, &c.

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

A hinge provided with a stop formed during the process of the manufacture of the hinge, and out of the same parts or pieces composing the same, substantially as herein described.

WILLIAM WEBB.

Witnesses:

GEO. E. TERRY,
S. W. KELLOGG.