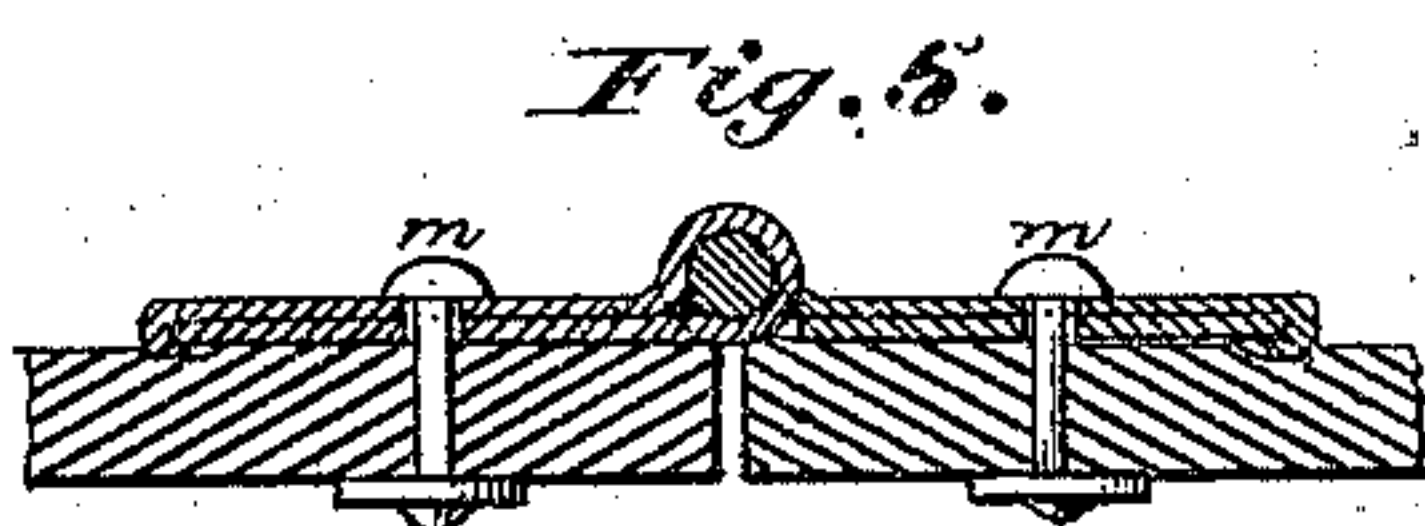
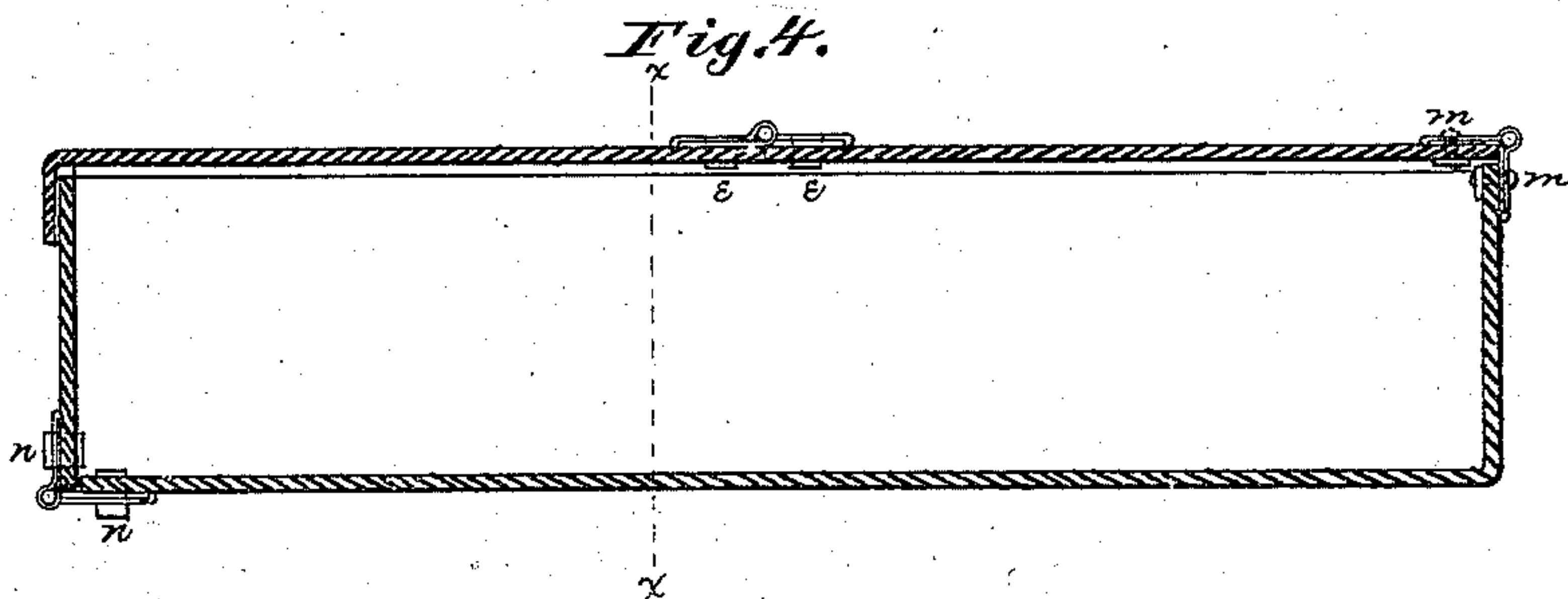
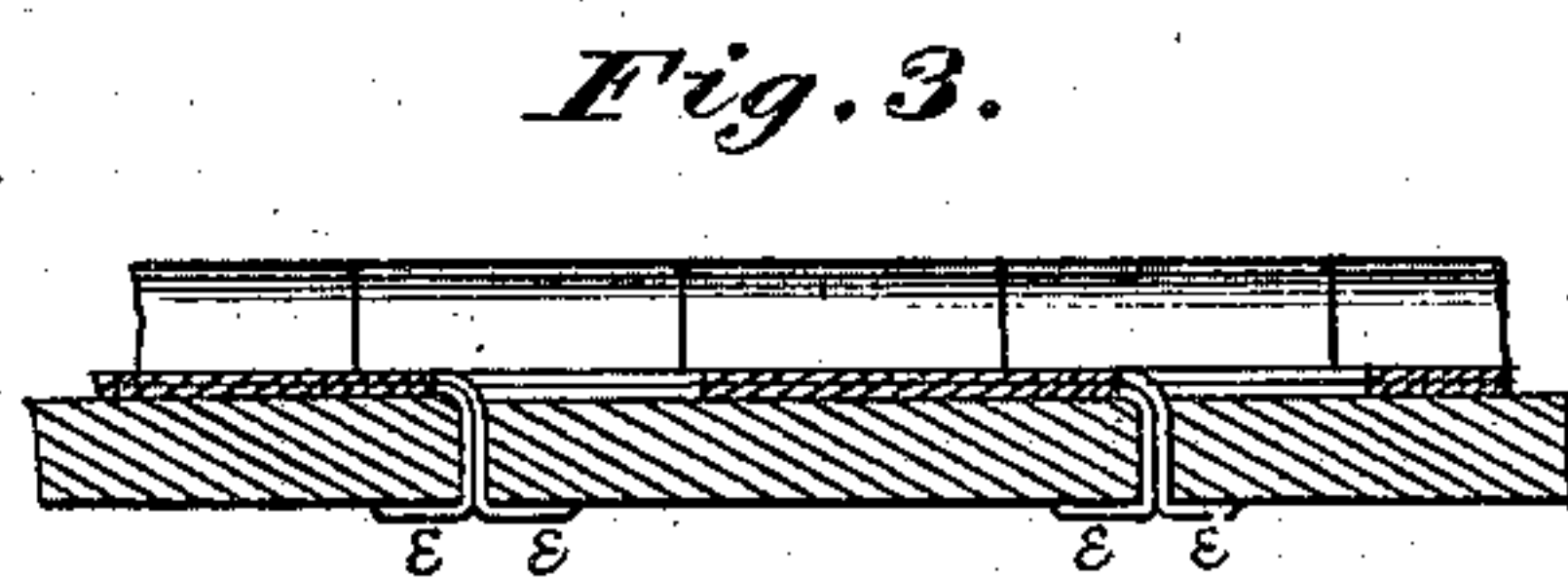
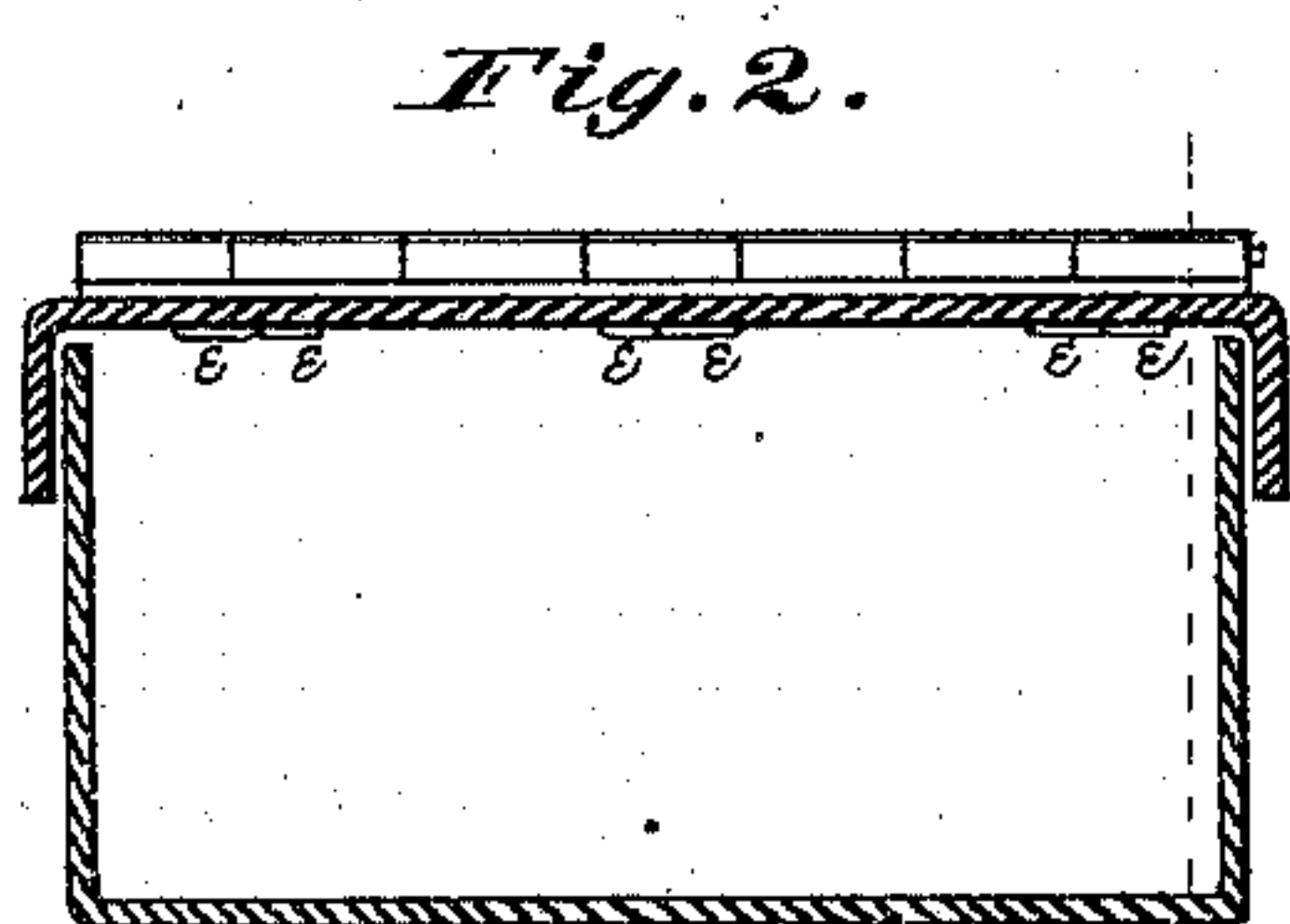
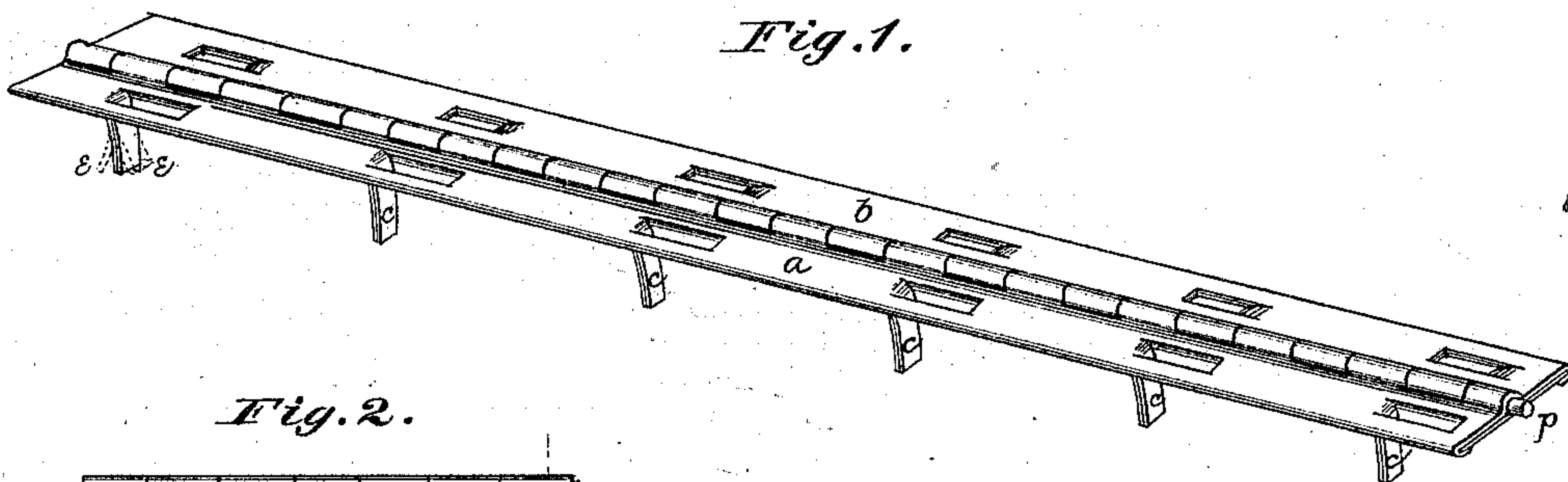


H. MANNECK.

Hinges.

No. 143,704.

Patented Oct. 14, 1873.



Witnesses.  
H. H. Kunkel.  
M. J. Harrison.

Inventor.  
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# UNITED STATES PATENT OFFICE.

HENRY MANNECK, OF NEW YORK, N. Y.

## IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **143,704**, dated October 14, 1873; application filed February 18, 1873.

*To all whom it may concern:*

Be it known that I, HENRY MANNECK, of New York, State of New York, have invented an Improved Metallic Hinge, of which the following is a specification:

This invention relates to hinges for boxes and other articles constructed of light wood, pasteboard, or straw-board; and it consists in, first, a hinge constructed of thin sheet metal, each leaf of which is made from a single strip, so folded as to double the thickness and form its tubular portions; and, second, a sheet-metal hinge upon each leaf of which tongues are cut, which are so bent out from the leaf that they can be passed into the material to which the hinge is applied, and secure the same to it, all as hereinafter described.

In the drawings, Figure 1 is a perspective view of my hinge constructed with self-fastening tongues. Fig. 2 is a section through line *x x* of Fig. 4. Fig. 3 is an enlarged view, in section, of my hinge, with self-fastening tongues secured to a box. Fig. 4 is a section of a box, showing my hinge secured by various devices. Fig. 5 is an enlarged view, in section, of my hinge secured by rivets. Fig. 6 is an enlarged front view of my hinge secured by separate metallic clinches.

I construct my hinge of long strips of sheet metal, the leaves being cut out by suitable dies, and the strips folded and tubular portions formed by suitable machinery. As shown in the drawings, the upper half of the leaf is made sufficiently wide to fold over and under the lower half, and thus secure the edges together. The two leaves are connected by a pintle of proper length, which passes through their tubular portions, and a long hinge is thus

formed, from which portions can be cut adapted to the size of the article to which the hinge is applied. Fig. 1 shows this hinge formed with tongues *c c* upon its leaves and bent down to be used as fasteners, and Figs. 2 and 3 show such a hinge secured to a box by means of such fasteners. These tongues being cut from two thicknesses of metal, their two portions *e e*, after being passed through the article to which the hinge is applied, can be divided and flattened, and they thus form a secure fastening. Rivets or separate metallic fasteners may be used for securing the hinge, as shown in Figs. 4, 5, and 6.

It is designed to make this hinge of thin metal and in long strips, so that the manufacturer of boxes or other articles to which they may be applied can cut off such lengths as may be desired.

The facility with which they can be applied is a great saving in the manufacture of boxes in which cloth hinges ordinarily are used, while their durability will prove as great as that of the boxes, &c., themselves.

I claim as my invention—

1. A sheet-metal hinge each leaf of which consists of two thicknesses of metal, one of which is extended and folded over the edge of the other, and which, with its tubular portions, is formed from a single strip.

2. A hinge formed of sheet metal, upon the leaves of which are cut tongues to fasten the hinge to the material to which it is applied, substantially as described.

HENRY MANNECK.

Witnesses:

F. T. JOHNSON,  
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