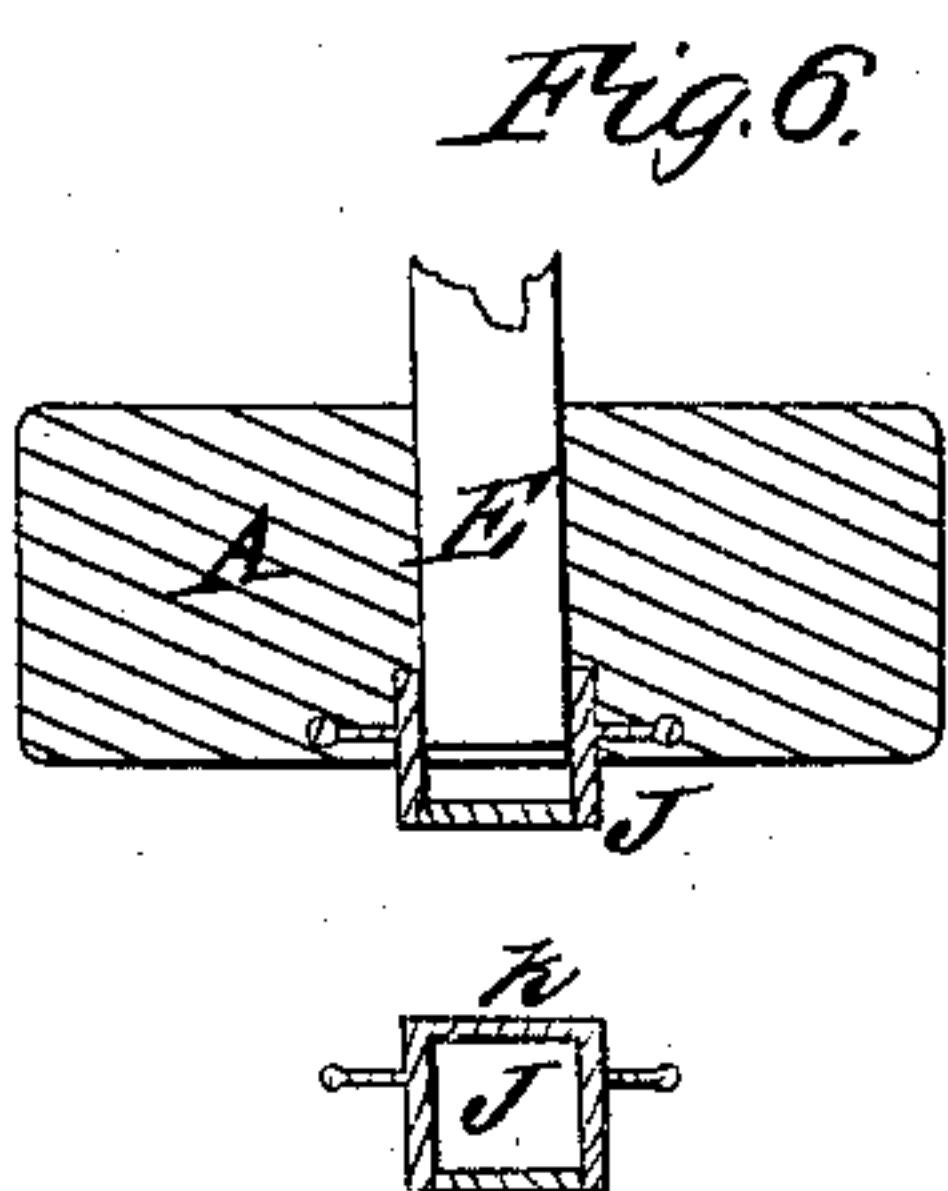
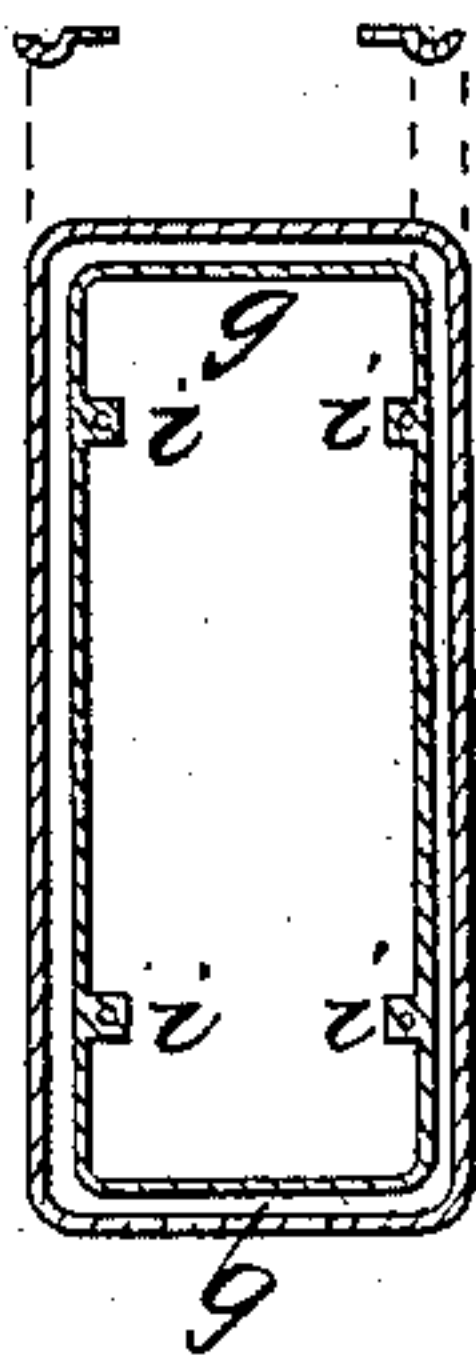
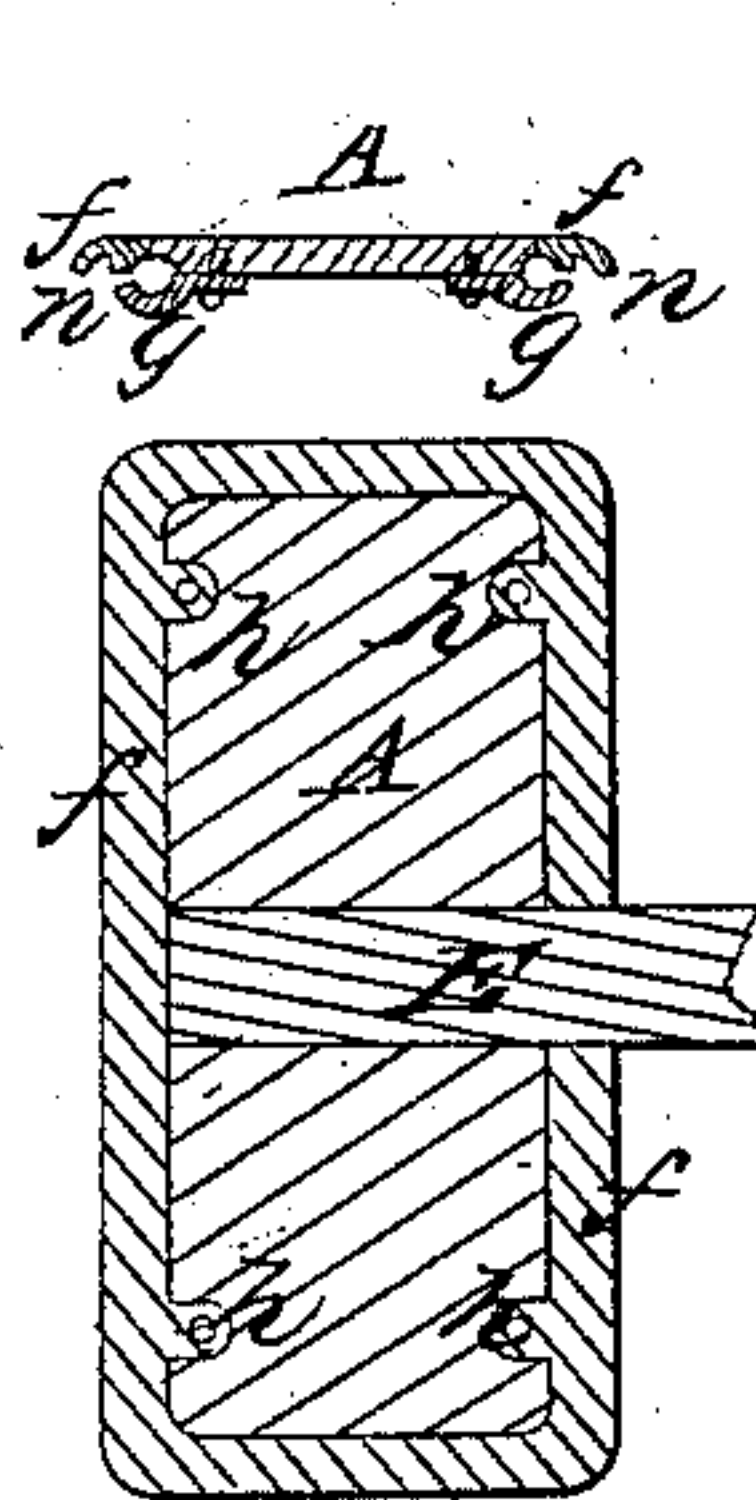
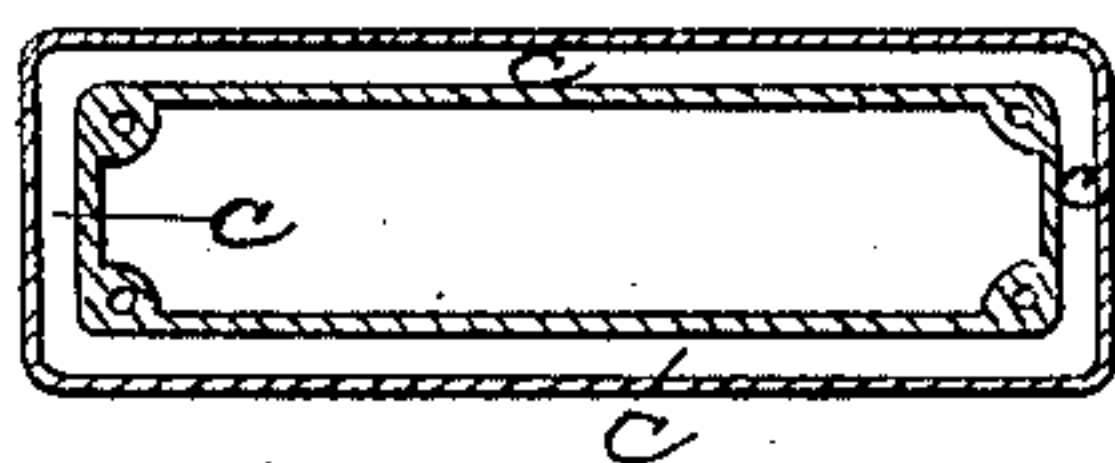
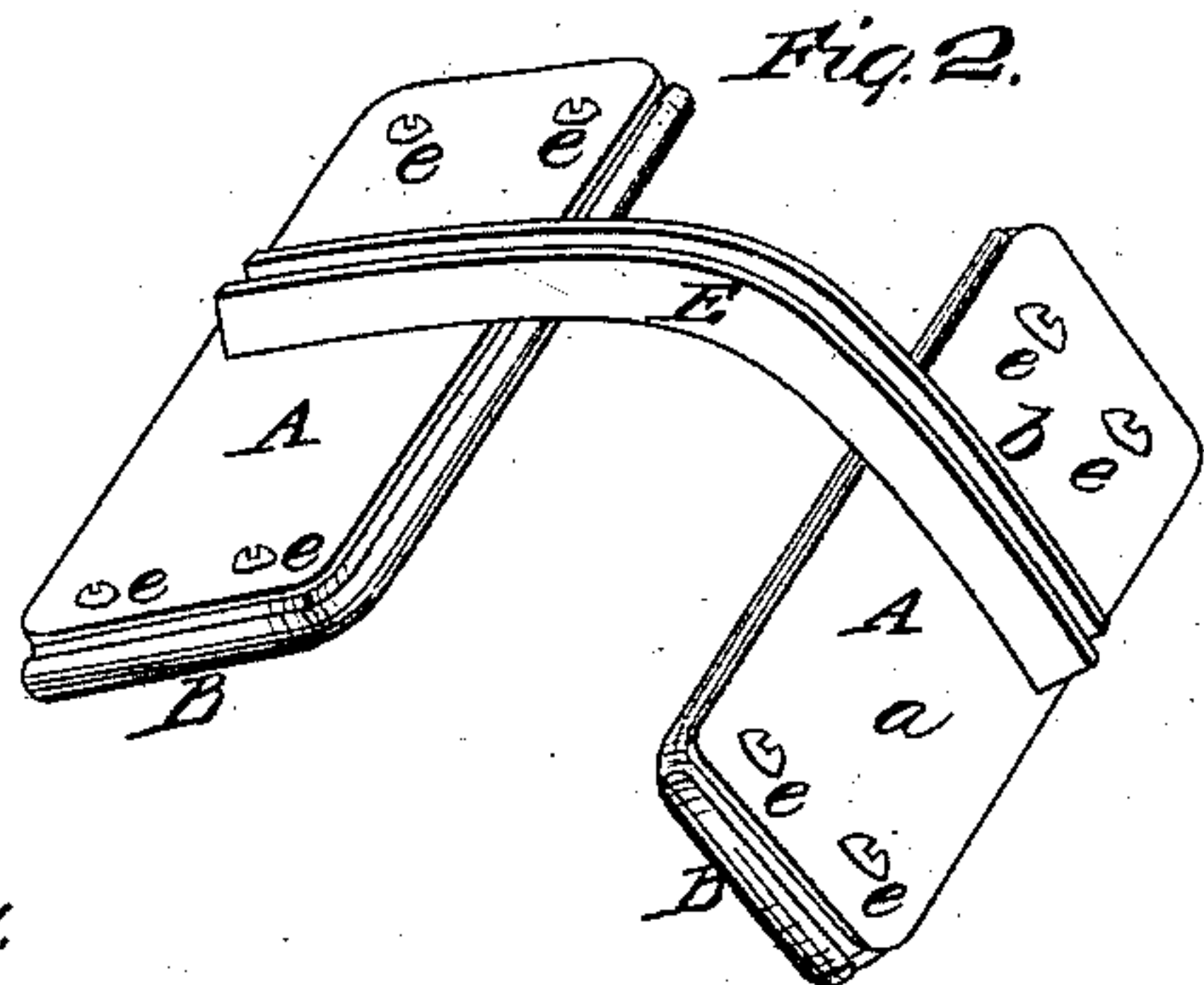
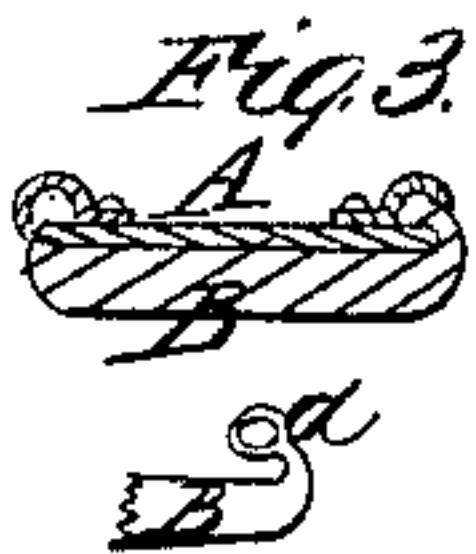
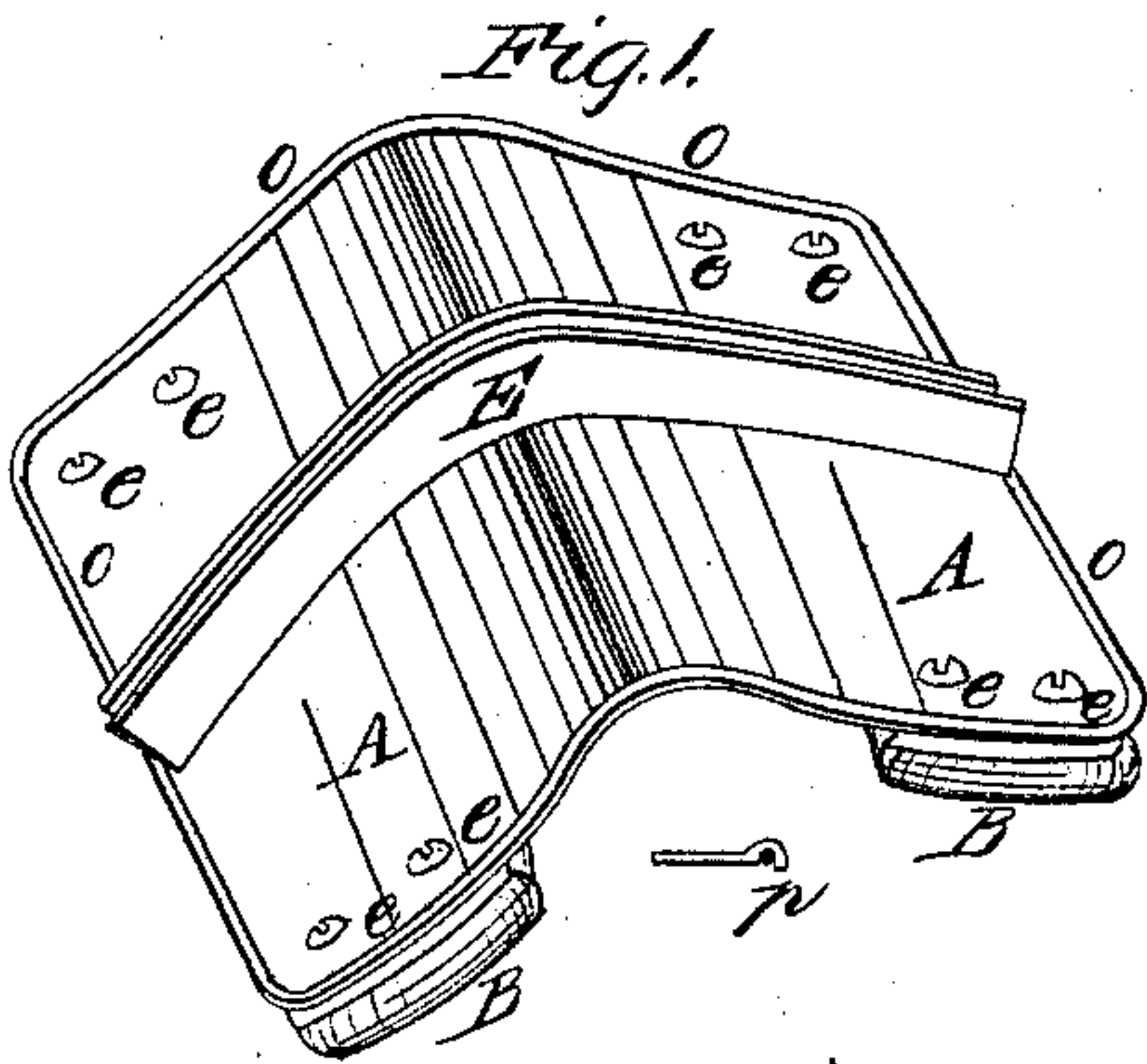


H. A. Rains,
Harness Saddle,
No 59,651, Patented Nov. 13, 1866.



Witnesses:
Wm M Gooding
Cyrus Currier

Inventor:
Henry A. Rains.

UNITED STATES PATENT OFFICE

HENRY A. RAINS, OF NASHVILLE, TENNESSEE.

IMPROVEMENT IN CART-HARNESS SADDLES.

Specification forming part of Letters Patent No. 59,651, dated November 13, 1866.

To all whom it may concern:

Be it known that I, HENRY A. RAINS, of Nashville, in the State of Tennessee, have invented certain Improvements in Cart-Harness Saddles; and I do hereby declare the following to be a full and exact description of the same, reference being herein had to the drawings accompanying this specification, and which make part of the same.

The nature of my invention consists in uniting the parts of cart-saddles in such a manner as that they can be taken apart without cutting a thread or drawing a tack whenever necessary repairs shall so require; also, in the manner of attaching the pads to the saddle.

In the drawings, Figure 1 represents a cart-saddle with the tree-bars and housing in one piece the whole width of the saddle, and with the pads screwed thereto. Fig. 2 shows a common cart-saddle with the tree-bars separate. Fig. 3 shows a method of holding the pad onto the saddle by means of a grooved frame on the top side of the tree-bar. Fig. 4 shows a frame for attaching the pads to the under side of the tree-bar. Fig. 5 represents a double frame-work that can be attached to the edges of the tree-bar, one half of the hollow circle for holding the pad being in the upper and the other in the under frame. Fig. 6 shows a frame for attaching a belly-band to the saddle and its place, and the manner of keeping it in its place.

The same letters refer to the same parts in each figure.

As now constructed all cart-saddles have their tree-bars of wood and the covering, technically termed the "housen" or "housing," made of leather, with their pads nailed fast to the wood, or they have pockets formed to receive the ends *a* and *b* of the tree-bar in Fig. 2, the housing of leather being nailed over the leather that is on the upper side of the tree-bar.

I form the tree-bars *A* of either metal or wood, and when made of wood and covered the covering is of metal.

The frame, Fig. 4, has a groove, *c*, deep

enough to receive the cord or roll *d* on the edge of the pad *B*, Fig. 3, the roll being all round the upper edge of the pad when the roll is on the frame, Fig. 4, and the frame is held up to the under side of the tree-bar *A* by the screws *e*, which have their threads in the corners of the metal frame *c*, the pad is held firm in place, yet can be removed with ease without injury to the saddle when needing repairs or being replaced by new pads.

Fig. 5 shows a manner of securing the pads between two frames. When the tree-bars are of wood one-quarter of a circle is formed around its lower edge, and a metal frame, *f*, having a corresponding quarter circle in its under edge, is fitted to the rim of the tree-bar, and held thereon by the lugs and screws *h*. Another metal frame, *g*, with a semicircular groove therein, is held up to the under side of the frame *f* by screws through the tree-bar into threads in the lugs *i* on the frame *g*, the roll of the pad being received between the two frames.

When the tree-bars are of metal the whole of the upper semicircle can be formed therein and the frame *f* be dispensed with. In either case the edge projects beyond the groove as part of the housing, as at *n*, Fig. 5.

When the housing is formed of metal various ornaments can be either rolled on the edges and be filled solid, as are carriage-moldings, or the metal edge can be turned down over the wood and ornaments be placed upon it.

A rolled bead filled solid is represented at *o*, Fig. 1, and in section at *p*.

A belly-band frame, *j*, of metal has its back bar, *k*, bedded in the under side of the bridge-piece *E*, and is permanently secure when the bridge-piece is screwed to the tree-bar. In the present mode the strap is nailed to the bridge-piece.

It will be seen that by using frames to secure the pads to the tree-bars I am enabled to extend the edges of the tree-bars so as to form a covering or housing to the pads, thus combining the advantages of a housing with

a tree-bar, which is impossible where, as is the common usage, the pads are pocketed onto the tree-bar.

What I claim as my improvement, and desire to secure by Letters Patent, is—

1. The wooden housing, constructed and arranged as described, in combination with a metallic covering with the molding rolled or wrought upon it, as set forth.

2. Grooved frame-work for attaching the pads to the tree-bars, constructed substantially as described.

3. A belly-band fastening, constructed and attached as hereinabove set forth.

HENRY A. RAINS.

Witnesses:

W. M. GOODING,

CYRUS CURRIER.