

(No Model.)

W. F. HALL.

FASTENING DEVICE FOR STOP CHAINS OF TRANSOMS, &c.

No. 535,795.

Patented Mar. 12, 1895.

FIG. 1.

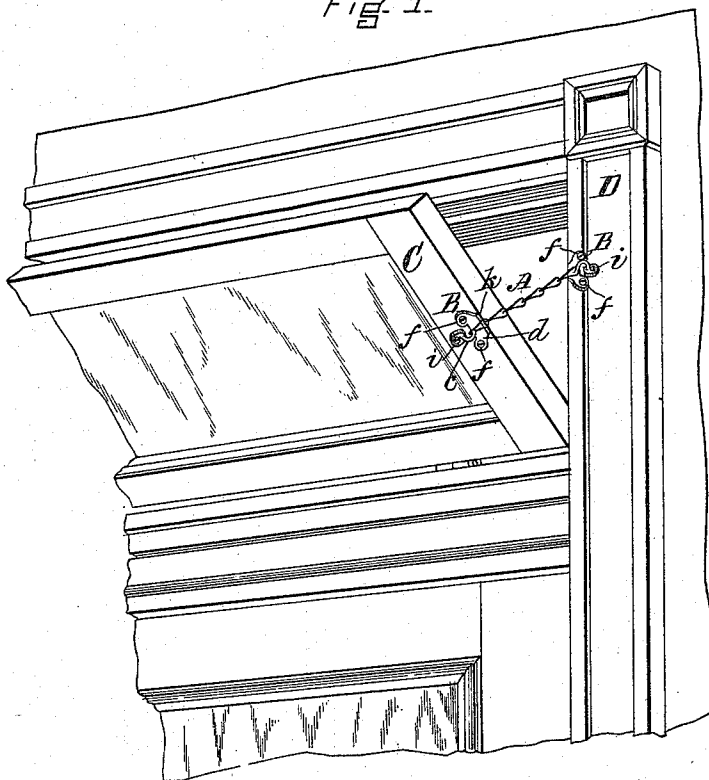


FIG. 2.

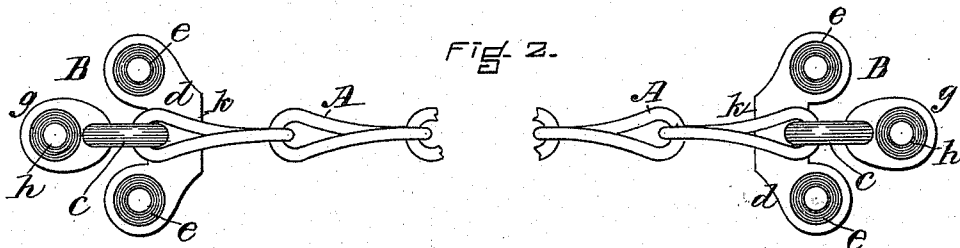
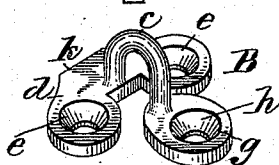


FIG. 3.



WITNESSES.

A. D. Grover.

A. E. Humiston

INVENTOR.

William F. Hall

by J. E. Schenck
Att'y

UNITED STATES PATENT OFFICE.

WILLIAM F. HALL, OF BOSTON, MASSACHUSETTS.

FASTENING DEVICE FOR STOP-CHAINS OF TRANSOMS, &c.

SPECIFICATION forming part of Letters Patent No. 535,795, dated March 12, 1895.

Application filed December 26, 1894. Serial No. 532,973. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. HALL, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Fastening Device for Stop-Chains for Transoms, Door-Bolts, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a portion of a transom and its frame having my improved chain-fastening device applied thereto. Fig. 2 is a plan of a transom-chain having my improved fastening devices applied to its ends. Fig. 3 is a perspective view of my improved fastening device detached from the chain.

My invention relates to fastening devices for stop-chains, more particularly those used for transoms, by which the opposite ends of the chain are secured to the transom and its frame. The fastening most commonly used for this purpose consists of a staple hooked into the end link of the chain, and having its two ends passed through and riveted on the under side of a metallic plate adapted to be secured in place by screws; an eye connected to the end link of the chain, and having its shank riveted on the back of the fastening plate has also been used, and in some cases the fastening plate has been provided with two lugs or ears cast integral therewith, between which the end link of the chain was secured by means of a transverse pin passing through said ears. All of these methods are objectionable on account of the expense of permanently fastening the end of the chain to the plate, and in case of the breakage of the chain or fastening, the entire device has to be discarded, as the end of the chain is permanently secured to the fastening plate, and therefore cannot be easily detached therefrom.

My invention has for its object to simplify and improve the construction of these chain-fastening devices, and avoid the extra cost of permanently securing the ends of the chain thereto, and consists in a chain-fastening de-

vice embodying certain novel features of construction as hereinafter fully set forth, and specifically claimed.

In the said drawings, A represents a transom-chain, and B, B, the fasteners connected with the ends of the same, as shown in Figs. 1 and 2. Each of these fasteners B, is composed of a single piece of cast metal, and consists of an outwardly projecting bow-shaped portion or loop *c*, which is provided at one end with a broad base-plate *d*, having holes *e*, for screws *f*, by which it is secured to the transom C, or frame D, as shown in Fig. 1. The opposite end of the loop *c*, is provided with a flattened foot *g*, lying in the same plane as the base-plate *d*, and provided with a single hole *h*, for a third attaching-screw *i*, said foot *g*, being of such size and so shaped as to admit of its being easily passed through the end link of the chain A, after which the fastener is secured in place by the screws *f*, *i*. When the fastener is in place the edge *k* of the base-plate *d* forms a guard to prevent the marring or defacing of the woodwork by contact of the chain therewith when the transom is opened. Furthermore this base-plate *d*, by reason of its breadth and the arrangement of its fastening screws, one above the other, is well adapted to resist strain in a vertical direction when the transom is opened and brought up suddenly by the stop-chain.

Among the many advantages possessed by my improved fastening-device may be enumerated the following:—It is simple, strong and cheap, being made in a single piece instead of in two or more pieces riveted together as heretofore. In case of the breakage of the chain, the fastener can be easily removed by any unskilled person, and a new piece of chain applied thereto at a trifling expense. In case the stop-chain when purchased should be found to be too long, one or more links at either end can be easily removed by the carpenter or other person putting it up, and the ends again hooked into the fasteners, the change being effected with great facility.

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

A chain-fastening device composed of a single piece of metal and consisting of the out-

wardly projecting bow-shaped portion *c*, the
base-plate *d*, extending transversely across
one end of the portion *c*, and having holes
for the attaching screws and an edge *k* form-
5 ing a guard for the chain, and the flattened
foot *g* projecting from the opposite end of the
said bow-shaped portion *c*, in line therewith,
whereby it may be passed through the end
link of the chain, said foot *g* having a hole

for an attaching screw, all constructed sub- 10
stantially as and for the purpose described.

Witness my hand this 19th day of Decem-
ber, A. D. 1894.

WILLIAM F. HALL.

In presence of—

P. E. TESCHEMACHER,
A. E. HUMISTON.