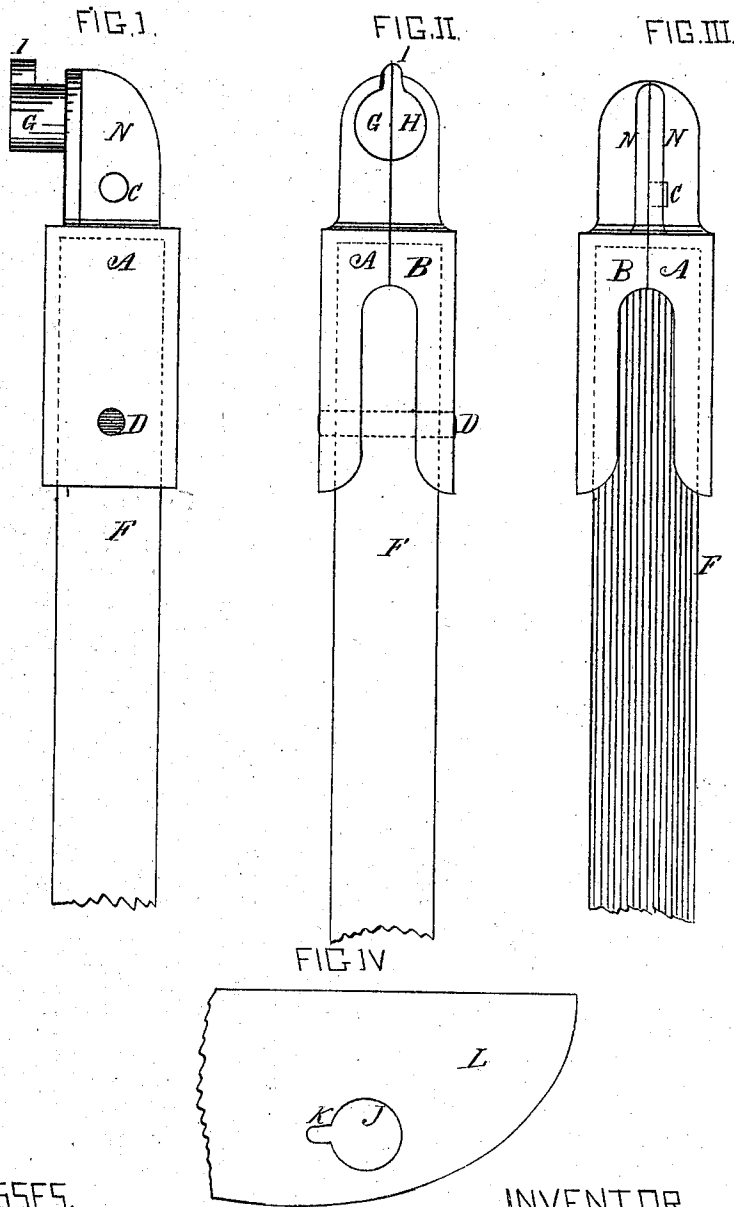


C. G. UDELL.

Improvement in Hinges for Step-Ladders.

No. 131,798.

Patented Oct. 1, 1872.



WITNESSES.

H. H. Brown
E. J. Chapin

INVENTOR.

Calvin G. Udell,
By E. J. Chapin,
Atty

UNITED STATES PATENT OFFICE.

CALVIN G. UDELL, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN HINGES FOR STEP-LADDERS.

Specification forming part of Letters Patent No. 131,798, dated October 1, 1872.

To all whom it may concern:

Be it known that I, CALVIN G. UDELL, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Hinge for Step-Ladders, of which the following is a specification:

The present invention relates to an improved two-part hinge, to be used in connection with a step-ladder patented by me June 8, 1869; but it may be used in connection with other step-ladders, or for other purposes; and its nature consists in forming the socket for the leg in two parts, also forming eye-pivot by elongating the said parts and holding them together by a rivet cast solid to one part and made to project through the other, as the whole is described and shown.

In the drawing, Figure 1 is a side view of my improved hinge; Figs. 2 and 3, front and back views; and Fig. 4, a broken elevation of the ladder-bracket to which the hinge is attached.

A B represent the two parts of the hinge, which are usually cast of malleable iron, and they are provided with opposing recesses suitable to receive the ends of the legs F, the position of which in the sockets is shown by dotted lines. The projections above the parts

A B to support a pivot, G, are shown at N N, and the rivet is cast solid to one of the pieces N and headed to the other, as shown at C; and the nib or lug for holding the pivot G in place is shown at I, and is cast solid to G. L represents a part of the bracket which supports the top step in the patent referred to. An eye, J, is made through the bracket to receive the pivot, and the eye is enlarged at K to receive the nib I, Fig. 1. The leg F, being turned partially around after it is attached to the bracket, is held in place by the said nib. This latter arrangement, however, is common, and is not claimed. A socket thus formed for the leg F is found to be the cheapest means now known for a sure fastening; the leg, being riveted to the plates A B at D, is firmly held in place.

I claim and desire to secure by Letters Patent—

A two-part socket-hinge, A B, provided with a pivot, G I, and rivet C, as and for the purpose set forth.

CALVIN G. UDELL.

Witnesses:

GEO. L. CHAPIN,
EDWIN G. McGUIRE.