

N. P. NELSON.

ICE-TONGS.

No. 171,413.

Patented Dec. 21, 1875.

Fig. 1.

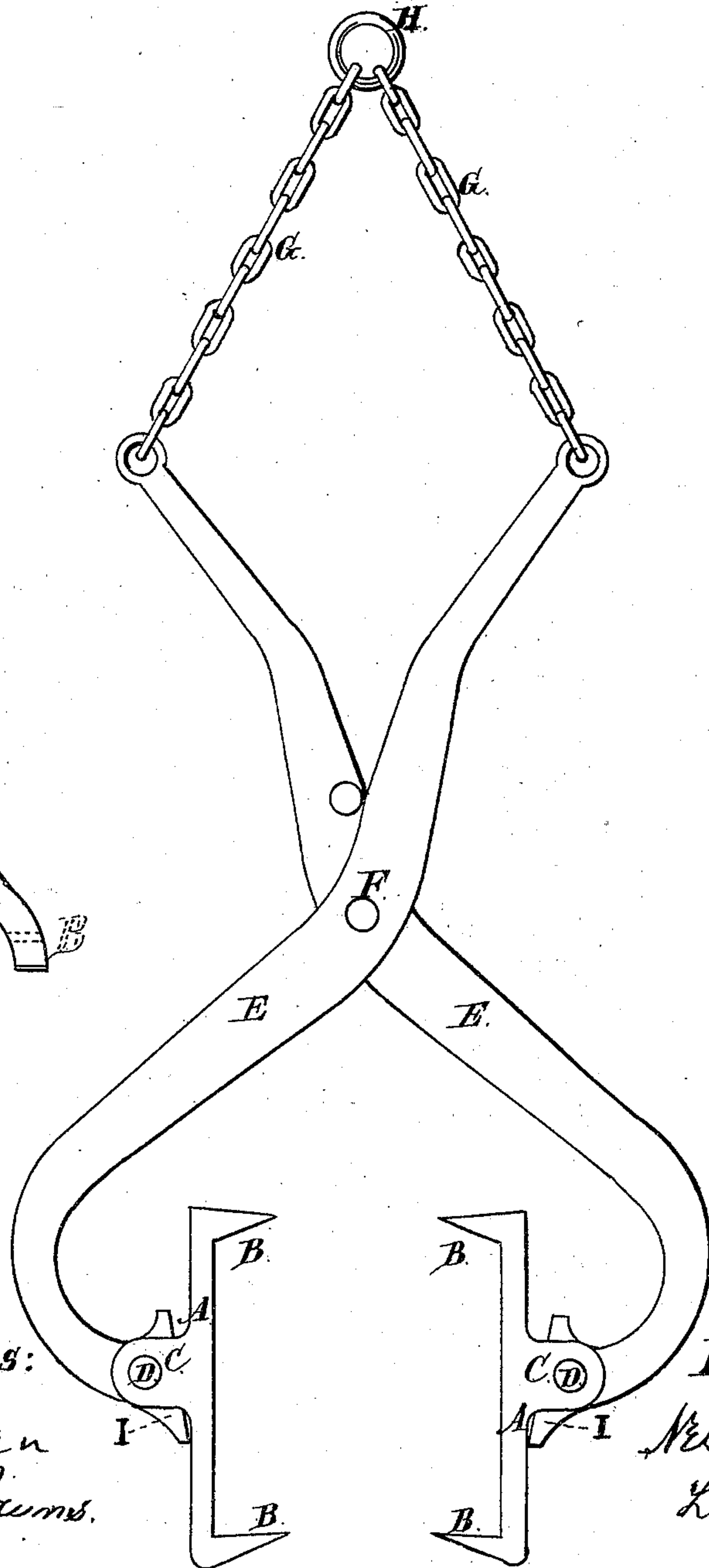
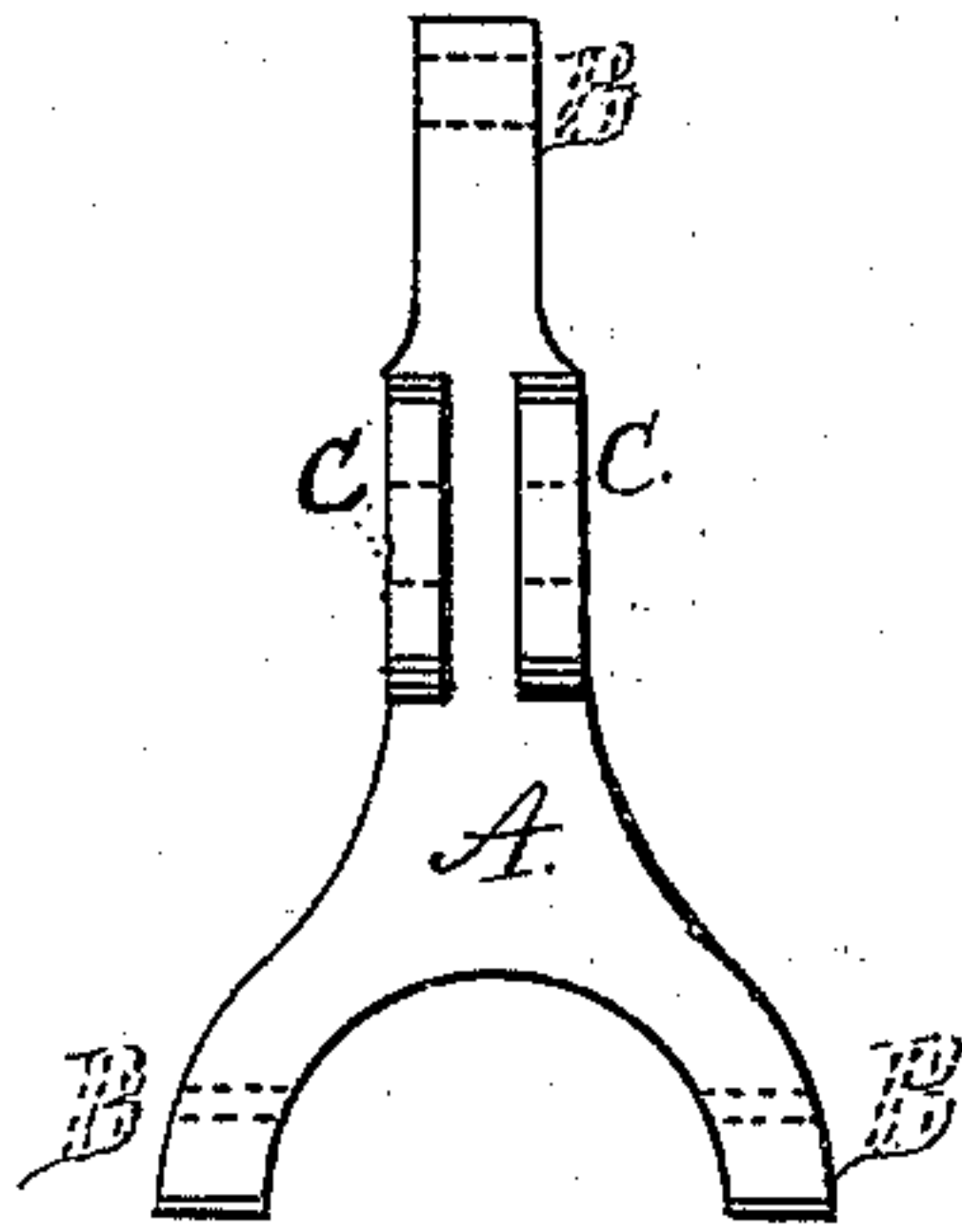


Fig. 2.



Witnesses:

L. L. Coburn
Heinrich F. Bruns.

Inventor:

N. P. Nelson
L. L. Coburn
Atty. -

UNITED STATES PATENT OFFICE.

NELS P. NELSON, OF CHICAGO, ILL., ASSIGNOR OF ONE-HALF HIS RIGHT TO ANSON S. PIPER, SETH PIPER, AND THOMAS PIPER, OF SAME PLACE.

IMPROVEMENT IN ICE-TONGS.

Specification forming part of Letters Patent No. 171,413, dated December 21, 1875; application filed June 28, 1875.

To all whom it may concern:

Be it known that I, NELS P. NELSON, of Chicago, county of Cook, State of Illinois, have invented a Hand for Ice-Tongs, of which the following is a specification, reference being had to the accompanying drawings and letters and figures marked thereon, which form a part of said specification.

My invention consists in making the arms of the tongs with projections at their lower ends, and combining therewith hands provided with spurs for grappling the ice, and ears or lugs by which they are pivoted to the arms, as will be hereinafter fully described.

In the accompanying drawings, Figure 1 represents a side elevation of my invention, attached to the tongs. Fig. 2 shows a plan view of one of the hands detached from the tongs.

A represents the frame or body of the hand, and B the calks or projections which grapple the ice. The frame of the hand is made in the form shown in Fig. 2, and has three calks or projections, B, at the points indicated by dotted lines in Fig. 2. C are the ears or lugs, by means of which the hand is attached, by a pin, D, to the tongs. The pivot-joint made by the pin D admits of the hands assuming a position oblique to each other, to adapt themselves to

cakes of ice not of a uniform thickness. E E are members of the ice-tongs, pivoted at F. G are chains attached to the ends of these members and to the ring H. This ring H is to receive the hook of any ordinary hoisting apparatus used for such purposes. I make the hands, composed of the frame A, calks or projections B, and ears or lugs C, all in one piece, and I contemplate making them of cast-steel. The members E of the ice-tongs have lateral projections I I at their lower ends. These projections extend between the ears C of the hand and limit its motion upon its pivot or pin D. This keeps the hands always in position to grapple the ice, and at the same time admits of their having sufficient motion to adapt themselves to pieces of ice of irregular shapes.

I claim—

The combination, substantially as described, of the arms E, provided with projections I I at their lower ends, and the frame A, provided with spurs B and lugs C, as and for the purposes set forth.

NELS P. NELSON.

Witnesses:

E. A. HILL,
HEINRICH L. BRUNS.