(No Model.)

J. B. VALLEE.

SHOULDER STRAP ATTACHMENT FOR MOLDERS' LADLES.

No. 390,320. Patented Oct. 2, 1888.

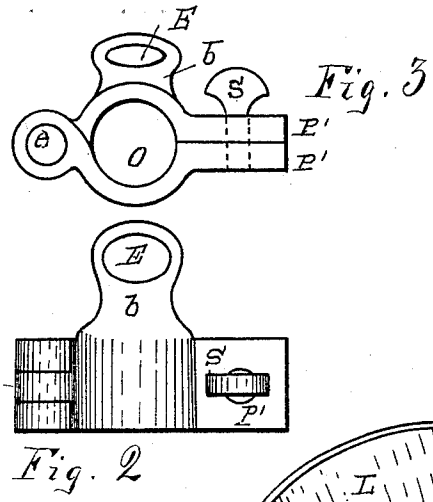


Fig. 3

Fig. 2

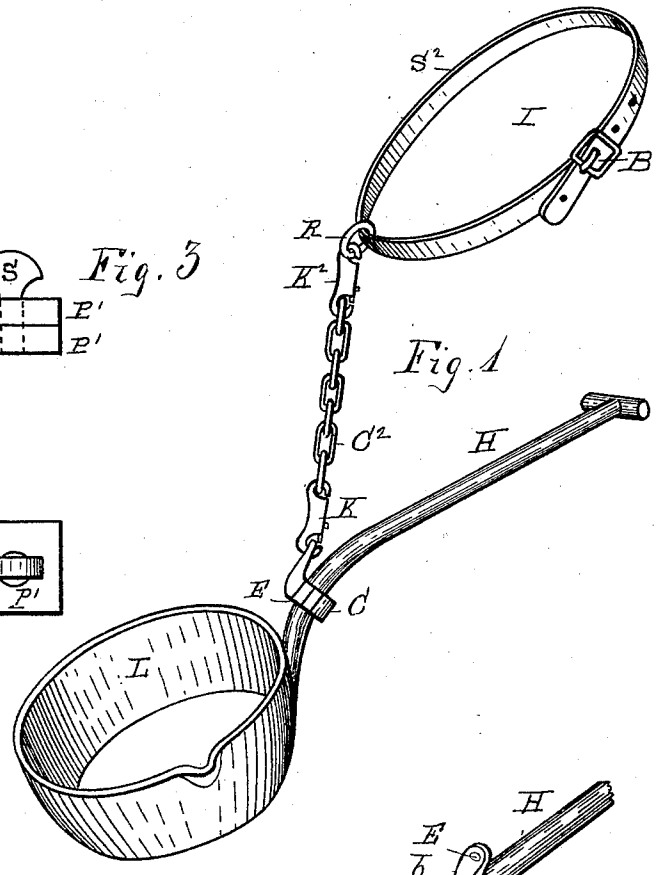


Fig. 1

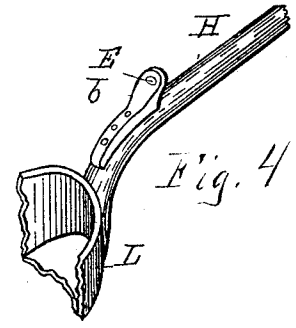


Fig. 4

WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN B. VALLEE, OF TROY, NEW YORK.

SHOULDER-STRAP ATTACHMENT FOR MOLDERS' LADLES.

SPECIFICATION forming part of Letters Patent No. 390,320, dated October 2, 1888.

Application filed February 3, 1888. Serial No. 262,916. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. VALLEE, of the city of Troy, county of Rensselaer, and State of New York, have invented a new and useful Improvement in Shoulder-Strap Attachments for Molders' Ladles, of which the following is a specification.

My invention relates to an attachment to the handles of molders' ladles, whereby a portion of the weight of the latter and their contents may be transferred to the shoulders of the workman while carrying the filled ladle, and thus relieve the heavy strain put upon the arms.

My invention consists (as will be more fully detailed hereinafter in connection with its illustration) in the combination, with the handle of a molder's ladle adapted to receive and contain molten metal, of an eye attachment to the ladle-handle near to where it joins the ladle, a chain adapted to be attached to and detached from said handle eye, and a shoulder-strap adapted to connect with the outer end of said chain, said strap being provided at one end with a buckle, and means to connect with the other end of the strap at variable points, and thus form an adjustable loop which may be passed on over the shoulder of the workman.

Accompanying this specification, to form a part of it, there is a sheet of drawings containing four figures illustrating my invention, with the same designation of parts by letter reference used in all of them.

In the drawings, Figure 1 is a perspective of a molder's ladle with my invention applied thereto. Fig. 2 shows a top elevation of an eye made integrally with a hinged clamping-plate that is adapted to be passed around the handle of a molder's ladle and secured thereto by a set-screw. Fig. 3 is a side view of the device shown at Fig. 2, and Fig. 4 shows a part of a ladle and ladle-handle containing a modified form of handle-eye.

The several parts of the apparatus thus illustrated are designated by reference-letters, and the function of the parts is described as follows:

The letter L designates the ladle, and H its handle.

The letter C designates a clamp made of the parts P' P', that are hinged together at *e*, having at their outer end the securing set-screw S, and intermediately the opening O and on an offset, *b*, the eye E. This clamp C is made to circle the handle H, with the handle within the opening O, and the clamp is secured to the handle by the set-screw S. The letter C^2 designates a chain that at its lower end is provided with a snap-hook, K, adapted to hook into the eye E of the clamp C. The upper end of this chain is adapted to attach to the strap S^2 by means of the ring R, through which said strap is passed, and the snap-hook K^2. This strap S^2 has at one of its ends a buckle, B, by which the ends of the strap may connect to form a loop, I.

In the modification shown at Fig. 4 the eye E is formed in a plate that is rigidly secured to the handle H. When it is desired to use this attachment to a ladle, after the latter is filled with molten metal the chain is hooked into the eye E and the loop I is passed on over the shoulder of the person who is to carry it, the loop having previously, by means of the buckle B, been made to suit the size of the operator, so that when the ladle is moved the greater portion of the weight is sustained upon the shoulder of the operator. Where used without the loop the ladle is carried by the arms alone, which makes hard and difficult work of the operation.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the handle of a molder's ladle provided with an eye, E, of the chain C^2, connected with said eye, and the strap S^2, provided with a buckle, B, and adapted to be connected at its ends, and connected intermediately to its ends, with said chain, substantially in the manner as and for the purposes set forth.

Signed at Troy, New York, this 13th day of December, 1887, and in the presence of the two witnesses whose names are hereto written.

JOHN B. VALLEE.

Witnesses:

CHARLES S. BRINTNALL,

W. E. HAGAN.