

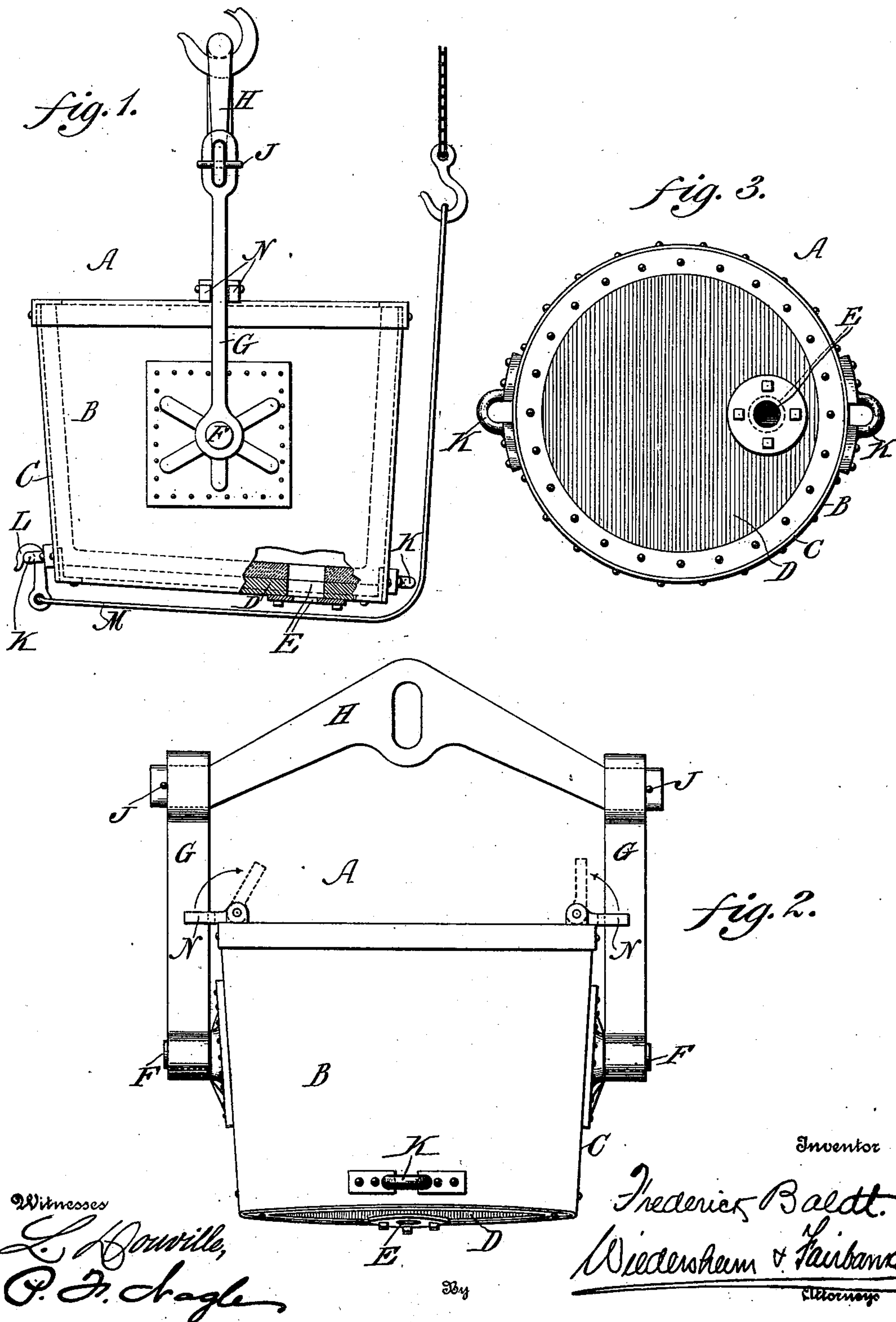
No. 665,499.

Patented Jan. 8, 1901.

F. BALDT.
LADLE.

(No Model.)

(Application filed July 9, 1900.)



UNITED STATES PATENT OFFICE.

FREDERICK BALDT, OF CHESTER, PENNSYLVANIA.

LADLE.

SPECIFICATION forming part of Letters Patent No. 665,499, dated January 8, 1901.

Application filed July 9, 1900. Serial No. 22,961. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK BALDT, a citizen of the United States, residing at Chester, in the county of Delaware, State of Pennsylvania, have invented a new and useful Improvement in Ladles, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an improvement in ladles for metal, whereby the same can be quickly and easily dumped.

It further consists of an improved construction of a bail for supporting the body portion.

It further consists of novel details of construction, all as will be hereinafter fully described, and pointed out in the claims.

Figure 1 represents a partial side elevation and partial sectional view of a ladle embodying my invention. Fig. 2 represents a front elevation thereof. Fig. 3 represents a bottom plan view of the body portion.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a ladle, having a body portion B, with the side C, of rolled steel or iron, and the bottom D, of cast metal, riveted or bolted to the side, said bottom having an opening E therein for evident purposes, said opening being controlled by a suitable valve (not shown) which can be easily operated.

Secured to the body portion B somewhat above the center of gravity are trunnions F, which are bolted or riveted to the body portion, said trunnions being journaled in the side pieces G, which, with the bar H, form the bail for the ladle, said side pieces G having openings in the upper end adapted to receive the ends of the bar H, pins or bolts J securing the parts together, the parts forming the bail being constructed of open-hearth steel.

K designates eyes bolted or otherwise secured to the body portion on opposite sides thereof, near the lower edge, said eyes being adapted to receive a hook L, secured to a chain or wire rope or rod M, which passes beneath the ladle and is secured or connected to a suitable part of a crane. (Not shown.)

N designates latches or catches secured to the body portion B and which have split ends to engage the side pieces G and lock the parts to prevent movement thereof.

The operation is as follows: The ladle having been supported upon the crane, the same is filled and then moved to the place where it is desired to empty the same. By suitably operating the valve which controls the opening E the ladle can be emptied, and after the same has been emptied it is necessary to remove the skull and slag. To do this, it is necessary to completely upset the ladle, and by suitably operating the latches N the body portion can be turned by pulling upon the rope or chain or rod M, so that the said body portion can be turned over completely. The slag strikes the skull and breaks the same away from the sides, so that both the slag and skull will be removed, it being seen that when the chain, wire rope, or rod M is released the body portion will swing back to the position seen in Fig. 1, since the trunnions F are slightly above the center of gravity.

It will be noted that by forming the bottom separate from the sides the same can be removed, if burned out, and a new bottom attached. The bail can be quickly removed from the bottom portion, since the same is formed in sections, by removing the pins J, when the side pieces G can be taken from the cross-bar H and the trunnions F.

It will of course be apparent that slight changes may be made by those skilled in the art which will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction I have herein shown and described.

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

1. In a ladle, a body portion, trunnions secured to the side thereof above the center of gravity, eyes secured adjacent to the bottom edge thereof, and means passed beneath said body portion from one side and adapted to engage the eye on the opposite side, whereby the ladle can be upset.

2. In a ladle, a body portion, trunnions secured to the side thereof, eyes adjacent to the lower edge thereof, and a chain which passes beneath said ladle from one side and is connected with the eye on the opposite side, whereby the ladle can be upset.

FREDERICK BALDT.

Witnesses:

F. T. TAYLOR,
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