Oct. 18, 1932. T. J. BLACK ET AL 1,883,501

PICKLING BASKET

Filed March 17, 1932

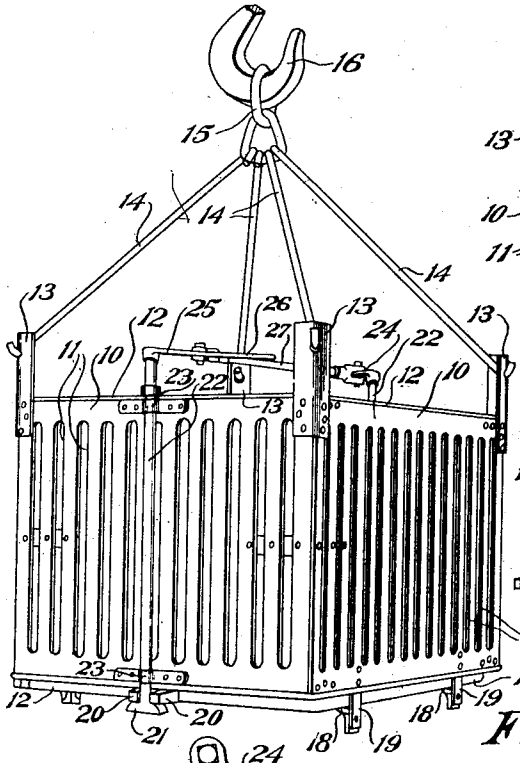


Fig. 1.

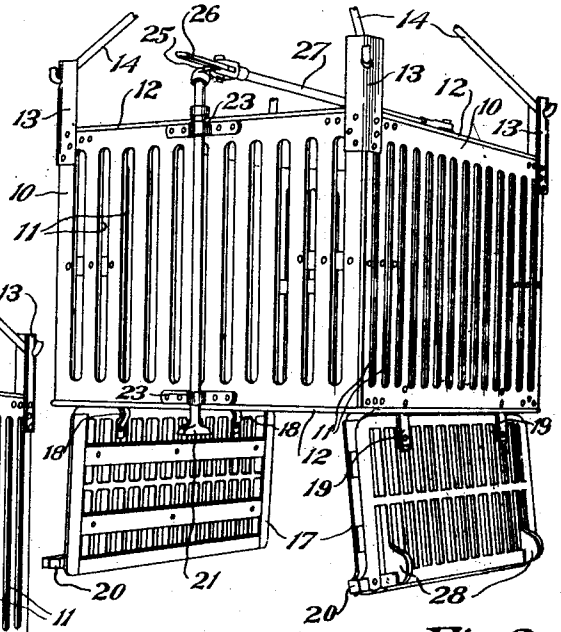


Fig. 2.

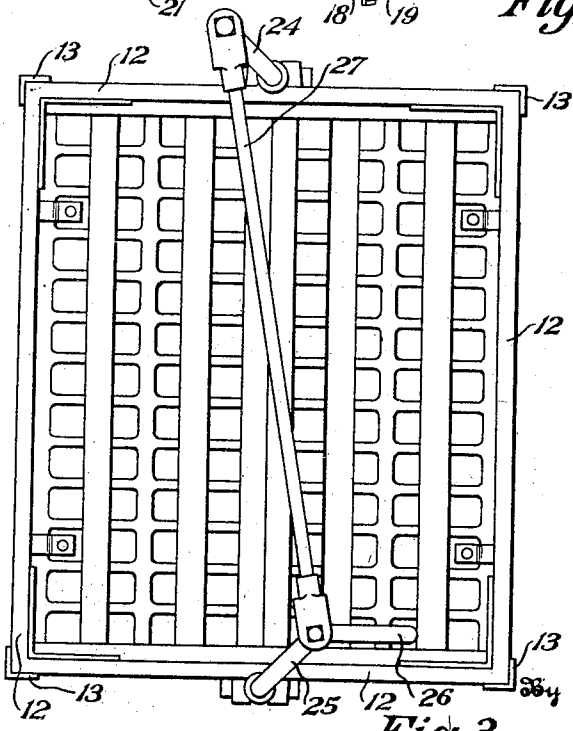


Fig. 3.

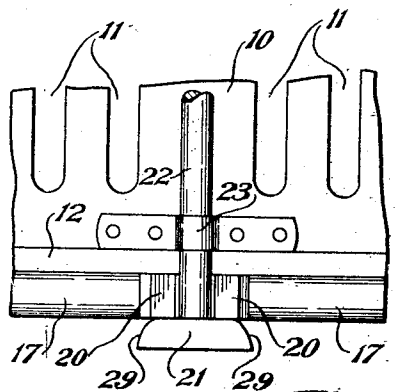


Fig. 4.

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UNITED STATES PATENT OFFICE

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PICKLING BASKET

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The invention relates to baskets for use in the pickling of forgings, castings and other metal articles.

It is common practice, in pickling small forgings, castings, and the like, to shovel the articles to be pickled into a basket, which is then lowered into a pickling vat where it remains until the pickling operation is completed, after which the basket is raised out of the pickling vat, the pieces being then transferred a few at a time from the pickling basket to a truck, conveyor or receptacle of suitable design.

The object of the present improvement is to provide a pickling basket having the bottom formed of two hinged sections with means for normally holding said sections in closed position to retain the articles in the basket, means being provided for releasing said hinged bottom sections to permit them to swing downward upon their hinges to discharge the contents of the basket into a suitable receptacle or onto a truck or conveyer, as desired.

A further object is to provide hinges for the bottom sections which also form feet to support the basket upon a floor or the like.

Another object of the improvement is to provide lugs upon the under surfaces of the hinged bottom sections, near the swinging edges thereof, for contact with a floor or the like to move said bottom sections to closed position when the basket is lowered upon the floor.

A still further object is to provide a basket of this character in which the interior of the basket is entirely unobstructed so as not to interfere in any way with the articles placed therein for pickling.

The above and other objects may be attained by constructing the improved pickling basket in the manner illustrated in the accompanying drawing, in which

Figure 1 is a perspective view of the improved pickling basket showing the hinged bottom in closed and locked position;

Fig. 2, a similar view showing the hinged bottom in open position;

Fig. 3, a top plan view of the improved basket showing the hinged bottom sections in closed and locked position; and

Fig. 4, an enlarged fragmentary detail elevation of the locking means for the hinged bottom sections.

Similar numerals refer to similar parts throughout the drawing.

The improved pickling basket may be formed of any metal suitable for resisting the acid of the pickling bath and includes the side walls 10 of any suitable design provided with a multiplicity of openings, as indicated at 11, of sufficient size and number to permit free access of the pickling solution to the interior of the basket. The upper and lower edges of the side walls may be reinforced as indicated generally at 12.

Angle plates 13 may be riveted or otherwise attached to the upper corners of the basket for the connection of rods or cables 14 which may be attached to a ring or the like as at 15 in order that a hook as shown at 16, suspended from a crane or the like, may be attached to the basket for raising and lowering the same.

The bottom wall of the basket comprises two similar sections, each indicated generally at 17, hinged at their outer edges to the lower edge portions of opposite side walls of the basket as by hinges 18. Each of these hinges may be formed with a depending foot portion 19 upon which the basket may be supported when lowered upon a floor or the like.

A lug 20 is formed at each end of the swinging edge portion of each of the hinged bottom sections 17, said lugs being adapted to normally rest upon the angular latch members 21 located at the lower ends of the shafts 22.

These shafts are journaled in bearings 23 provided upon opposite side walls of the basket and extending slightly above the upper edge of the basket. A lever 24 is fixed to the upper end of one shaft 22 and a lever 25 is fixed to the upper end of the other shaft, these levers being preferably located at opposite angles as best shown in Fig. 3.

The lever 25 is preferably provided with an angular handle portion 26 by means of

which the same can be manually operated. A link 27 is pivotally connected to the levers 24 and 25 whereby the two shafts 22 may be rotated a quarter turn in unison to move the latch members 21 out of contact with the lugs 20, permitting the hinged bottom members 17 to swing downward into open position, as shown in Fig. 2, whereby the contents of the basket may be instantly discharged therefrom.

With this construction it will be seen that when the basket is raised from the pickling vat and moved over a receptacle, conveyer or truck designed to receive the contents of the basket, the entire contents may be discharged by a pull upon the lever 26.

After the basket has been emptied, it may be lowered to the floor and a slight inward movement of each hinged bottom section will bring the rounded lugs 28, upon the swinging edges thereof, into contact with the floor whereby further lowering movement of the basket will cause the swinging doors to automatically close.

The lever 26 may then be operated in the opposite direction to move the latch members 21 back into the locked position, the beveled edges 29 thereof assisting them to engage under the lugs 20 of the hinged bottom sections, locking them in position as shown in Fig. 1.

We claim:

1. A pickling basket including side walls forming a substantially rectangular frame, a pair of bottom sections hinged at their outer edges to the lower edge portions of opposite side walls, lugs at opposite ends of the swinging edge portions of said bottom sections, vertical shafts journaled upon the outside of opposite side walls and extending above and below said side walls, latch members upon the lower ends of said shafts for engagement with said lugs, levers upon the upper ends of said shafts and a link connecting said levers.

2. A pickling basket including side walls forming a substantially rectangular frame, a pair of bottom sections hinged at their outer edges to the lower edge portions of opposite side walls, lugs, at opposite ends of the swinging edge portions of said bottom sections, vertical shafts journaled upon the outside of opposite side walls and extending above and below said side walls, latch members upon the lower ends of said shafts for engagement with said lugs, levers upon the upper ends of said shafts, a link connecting said levers, and depending feet formed upon said hinges for supporting the basket upon a floor.

3. A pickling basket including side walls forming a substantially rectangular frame, a pair of bottom sections hinged at their outer edges to the lower edge portions of opposite side walls, lugs at opposite ends of the swinging edge portions of said bottom sections, vertical shafts journaled upon the outside of opposite side walls and extending above and below said side walls, latch members upon the lower ends of said shafts for engagement with said lugs, levers upon the upper ends of said shafts, a link connecting said levers, and depending, rounded lugs upon the swinging edges of said hinged bottom sections.

In testimony that we claim the above we have hereunto subscribed our names.

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