July 26, 1938. A. N. KLYVER 2,124,964

CHUTE

Filed June 20, 1936

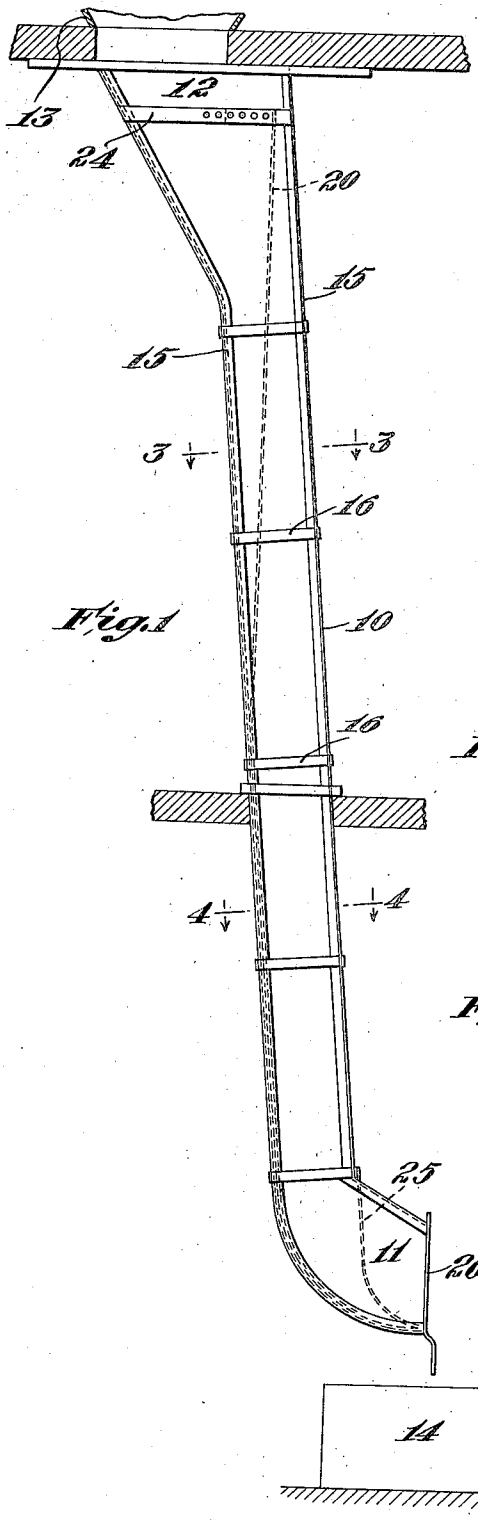


Fig. 1

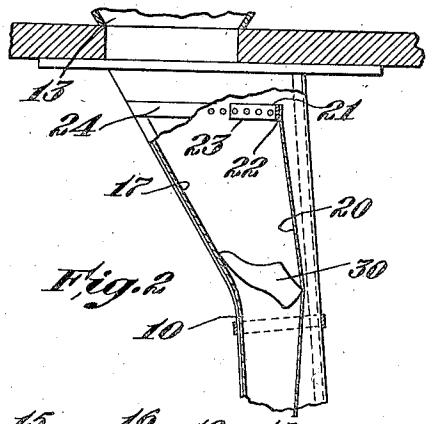


Fig. 2

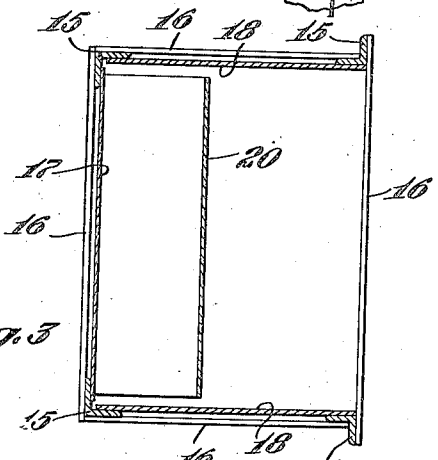


Fig. 3

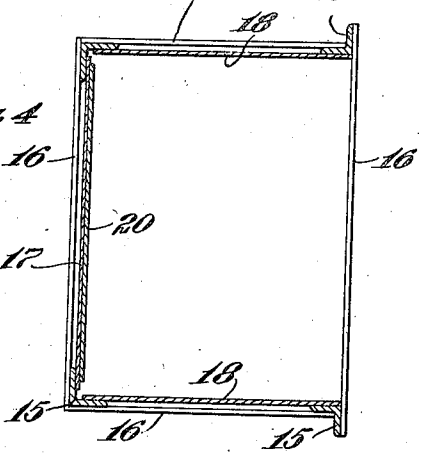


Fig. 4

Inventor
Albert N. Klyver
by Pobcutt Cushman & Woodberry
Att'ys

Patented July 26, 1938

2,124,964

UNITED STATES PATENT OFFICE

2,124,964

CHUTE

Albert N. Klyver, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts

Application June 20, 1936, Serial No. 86,325

1 Claim. (Cl. 193—32)

This invention relates to an improvement in a chute and more particularly to a chute for shoe lasts.

In the manufacture of shoes according to the progressive system the lasts may be removed from the shoes after they have progressed several floors above the station at which the parts were assembled with the lasts.

The object of the present invention is to provide means for returning the lasts to the station at which they were assembled with the shoe parts quickly and with a minimum amount of handling and at the same time avoid so far as possible the danger of marring or scarring the lasts by rough treatment.

One embodiment of such means is set forth in the following description and on the accompanying drawing in which

Fig. 1 is a view in side elevation of a chute for shoe lasts embodying this invention;

Fig. 2 is a similar view of the upper end of such chute with parts broken away; and

Figs. 3 and 4 are enlarged cross sectional views taken along the lines 3—3 and 4—4 on Fig. 1.

The illustrated embodiment comprises a chute 10 having a slightly inclined base and terminating in a forwardly extending discharge outlet 11. It will be understood that the chute is so located that the mouth 12 thereof is conveniently adjacent the operator or operators who remove the lasts and that the discharge outlet delivers the lasts at a point conveniently adjacent the operator or operators who assemble the lasts with the shoe parts. The mouth 12 of the chute may be fed by a hopper 13 and the shoes delivered to a container 14 as suggested in the drawing.

The chute 10 here shown consists of a frame including slightly inclined angle posts 15 positioned by the bars 16, and bottom and side walls 17 and 18, respectively, of belting, fabric or similar material. This wall material prevents marring or scarring the lasts and is suitably secured to the posts 15. The front wall of the chute is open.

Suspended from the top of the chute adjacent the open front wall is a curtain 20 of belting or similar material. The lower end of the curtain normally rests upon the bottom wall of the chute as shown in Fig. 4 and if found necessary may be weighted at the lower edge. The support 21 for the curtain may, as shown in Fig. 2, permit adjustment of the upper edge of the curtain toward or from the open front wall of the chute. The support 21 may comprise a cross bar 22 terminating at the ends in flanges 23 removably secured to the side walls 18 by bolts or screws. Straps 24 may be provided to reinforce the side walls and a plurality of openings formed in the flanges and walls so that the location of the cross bar 22 relative to the open front wall can be regulated.

In addition to the curtain 20 a secondary or auxiliary curtain 25 may be suspended into the chute near the discharge outlet and the outlet itself closed by a flexible flap 26. The curtain 25 or the flap 26 or both may be omitted when desired.

The lasts, one of which is shown and designated by the number 30 in Fig. 2, tossed into the chute travel by gravity therethrough resting upon the inclined bottom wall 17. The curtain 20 serves to hold the lasts against the wall 17 and at the same time to retard their speed. The auxiliary curtain 25 and flap 26 further retard the speed of travel of the lasts. In order to insure the delivery of the lasts at the rate most desirable and to adapt the chute for handling lasts of different sizes and weights the point of suspension of the curtain 20 may be adjusted toward and from the open front wall of the chute.

I claim:

An inclined chute for shoe lasts having bottom and side walls of yieldable material and an open front wall, a curtain of flexible material and means for suspending the curtain at its upper end adjacent the open front wall, the lower end of said curtain normally resting upon the bottom wall of the chute, said means being adjustable to determine the distance of the upper end of the curtain from the front wall and the amount of the lower end of the curtain resting upon the bottom wall.

ALBERT N. KLYVER.