March 15, 1927. 1,620,920

C. F. PORTER

IMPLEMENT FOR RESHAPING DISTORTED ELEVATOR BUCKETS

Filed Jan. 23, 1925

Fig. 1.

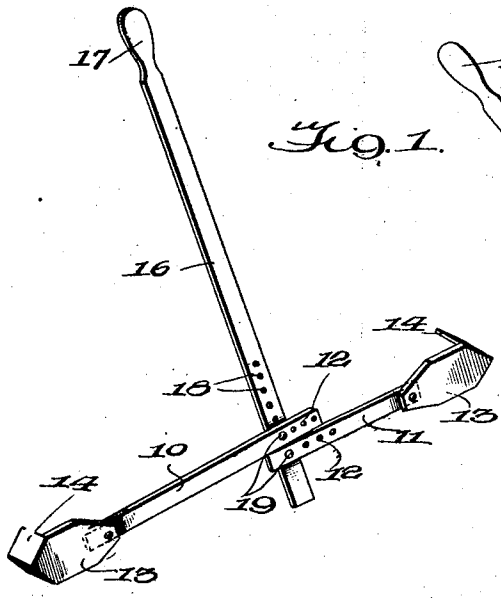


Fig. 2.

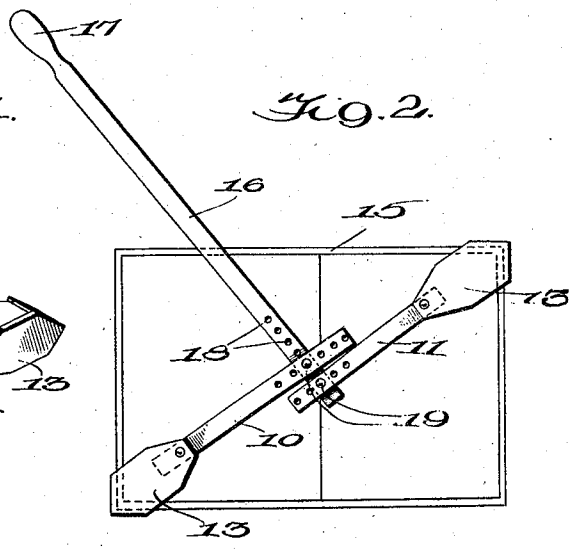


Fig. 3.

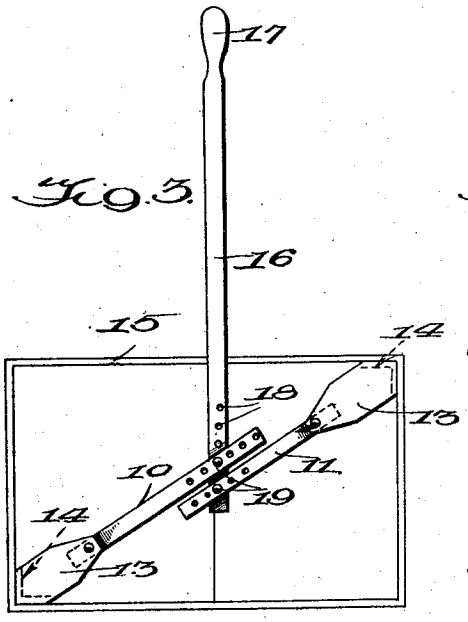
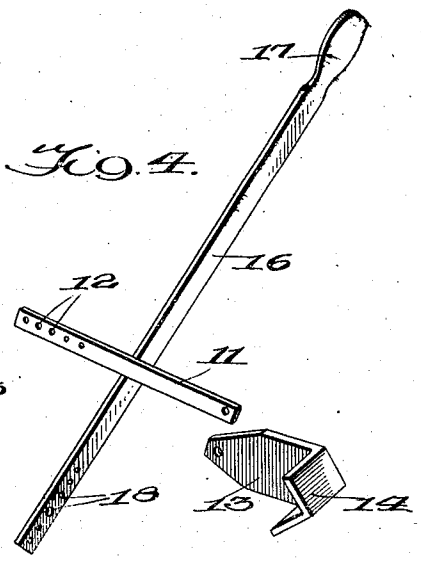


Fig. 4.



WITNESSES

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Patented Mar. 15, 1927. 1,620,920

UNITED STATES PATENT OFFICE.

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IMPLEMENT FOR RESHAPING DISTORTED ELEVATOR BUCKETS.

Application filed January 23, 1925. Serial No. 4,289.

My present invention relates generally to elevator buckets, and more particularly to devices for spreading and contracting the same without necessitating the detachment of such buckets from their supports, and a primary object is the provision of a simple inexpensive hand implement for the reshaping of elevator buckets which have become distorted in use, for instance where the outer walls have become bulged or indented, or where the buckets have been laterally distorted to such an extent as to require their restoration more or less to normal shape.

In the accompanying drawing which illustrates my present invention and forms a part of this specification,

Fig. 1 is a perspective view of my improved implement,

Fig. 2 is a top plan view showing the same applied in engagement with the outer surfaces of diagonally opposite corners of a bucket,

Fig. 3 is a view showing the same applied to the inner surfaces of diagonally opposite corners, and

Fig. 4 is a perspective view of the handle, showing one of the thrust bars and one of the engaging elements.

Referring now to these figures, my invention proposes the use of a pair of thrust bars 10 and 11, of similar construction, each consisting of a straight bar, the inner end of which is provided with a longitudinal series of openings 12, and the outer end of which carries an engaging element having a flat body 13 provided at its outer end with flanges 14 joining one another at approximately right angles, the flanges extending to one side of the body 13 so that they are thus adapted for engagement with either the outer or inner faces of diametrically opposite corners of an elevator bucket indicated at 15, as shown respectively in Figures 2 and 3.

With the thrust bars 10 and 11, a handle bar 16 is utilized. This lever has a hand piece 17 at one end and adjacent to its opposite end is provided with a longitudinal series of openings 18. Through selected openings of the handle bar and through selected openings of the thrust bars 10 and 11, pivot pins 19 are extended so as to adjustably join the thrust bars to the lever, the thrust bars being in parallel relation with their inner ends overlapping in edge wise relation as plainly seen in Figures 1 to 3 inclusive, and with their pivot pins 19 offset with respect to one another in the direction of the longitudinal axis of the lever, so that upon swinging movement of the latter, with the engaging elements applied as in Figures 2 and 3, the thrust bars 10 and 11 will be shifted in the direction of their length toward and away from one another as the case may be.

Frequently the elevator buckets 15 are laterally deflected from a true rectangle, and in order to restore the same to shape, the implement as above described, is particularly effective when used first as in Figure 2 in connection with diametrically opposite corners, and then as in Figure 3 in connection with the other diametrically opposite corners.

It is obvious from the foregoing that my invention provides a simple, strong and durable implement for the purpose described, which may be easily engaged, readily manipulated, and effectively used in practice.

I claim:—

1. An implement of the class described including a pair of thrust bars movable approximately in relatively opposite directions, an actuating lever operatively connected with said thrust bars, and a work-engaging element carried by one end of each thrust bar and consisting of a body having a right-angular head adapted to engage either the inner or the outer faces of diagonally opposite corners of an elevator bucket.

2. An implement of the character described including a pair of thrust bars movable in approximately parallel relation relative to one another and having their inner ends overlapping and provided with lengthwise series of apertures, an actuating lever having a handle at one end and having a lengthwise series of apertures at its opposite end, pivot bolts extending

through certain of the apertures of said thrust bars and certain of the apertures of the lever, and work-engaging elements including flat bodies connected at one end to the outer ends of the thrust bars, the said flat bodies of the work-engaging elements terminating in angularly flanged outer ends, portions of the flanges of each element projecting at approximately right angles to one another and said flanges presenting means to engage respectively the outer or inner faces of an elevator bucket.

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