H. J. KROSCOVSKI.

RIVET HOLDING DEVICE.

APPLICATION FILED MAR. 17, 1913.

1,068,671. Patented July 29, 1913.

Fig. 1.

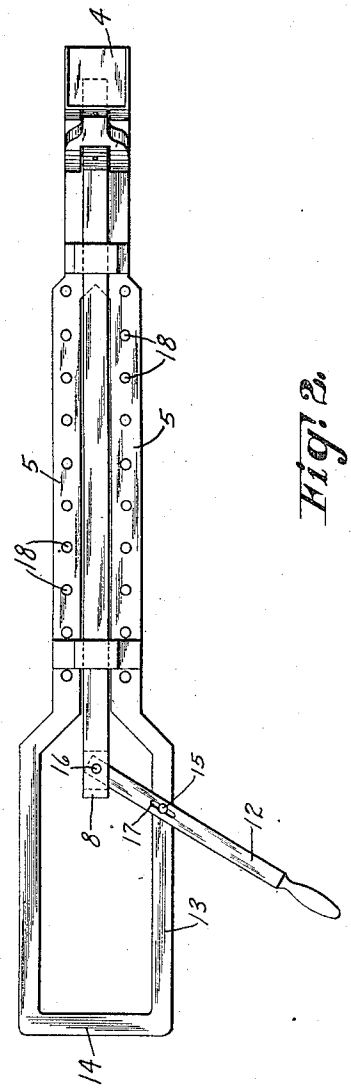
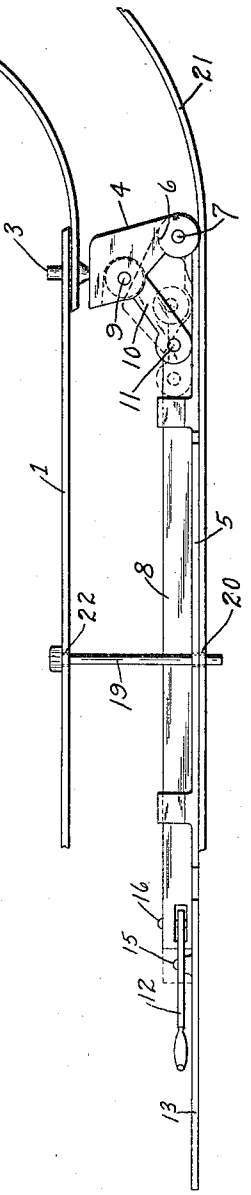


Fig. 2.



Witnesses

F. A. Otto.

H. C. Van Ryn

Inventor

Henry J. Kroscovski

By Edwin & Wheeler

Attorneys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HENRY J. KROSCOVSKI, OF MILWAUKEE, WISCONSIN.

RIVET-HOLDING DEVICE.

1,068,671. Specification of Letters Patent. Patented July 29, 1913.

Application filed March 17, 1913. Serial No. 754,802.

To all whom it may concern:

Be it known that I, HENRY J. KROSCOVSKI, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Rivet-Holding Devices, of which the following is a specification.

My invention relates to improvements in devices for holding rivets in place while being upset.

It is a well known fact that to successfully and expeditiously upset a rivet, it becomes necessary to hold a hammer or other weight firmly against its head, whereby such rivet is securely retained in place while being struck with a rivet hammer and the strokes of the riveting hammer are counteracted by the inertia of such weight. Experience has also shown that there are many places, especially in locomotive boilers, so located that it is difficult to reach or hold a weight of ordinary construction against the rivet as it is being upset.

The object of my present invention is therefore among other things, to provide means for reaching and applying the required resistance of the weight to the head of a rivet by lateral pressure when such rivet is located at a distance between the walls where it would otherwise be difficult if not impossible to apply a weight of ordinary construction directly or by direct pressure.

My invention is further explained by reference to the accompanying drawings in which—

Figure 1 represents a plan view of my device for applying a weight to the head of a rivet while being upset, and Fig. 2 is a side view of the same, located between the walls of a boiler in contact with the head of a rivet preparatory to upset the latter.

Like parts are identified by the same reference numerals in both views.

1 represents one of the inner sheets of a boiler which is being connected with the sheet 2 by the plurality of rivets 3.

4 represents the weight which comprises one of the elements of my device in contact with the head of the rivet 3. The weight 4 is pivotally supported from the bars 5, 5, by and between lugs 6 by the bolt 7. The upper end of the weight 4 is pivotally connected with the sliding bar 8 by the pivotal bolts 9, links 10 and pivotal bolt 11, whereby it is obvious that as said bar 8 is forced to the right the weight 4 will be forced outwardly at right angles to said bars 5 and in contact with the head of the rivet 3 as shown in Fig. 2 when the protruding end of the rivet 3 may be upset by the strokes of the rivet hammer in the ordinary manner.

While a longitudinal movement may if desired, be communicated to the sliding bar 8 from a piston operated in a cylinder by hydraulic or pneumatic pressure direct, for convenience of construction I have shown such slidable bar 8 manually operated by lever 12, which is pivotally supported from the side bar 13 of the frame member 14, whereby as said lever is moved in one direction said weight 4 will be brought in contact with the rivet and when said lever is moved in the opposite direction, said weight will be brought out of contact with the rivet. The lever 12 is connected with the slidable bar 8 through the pivotable bolts 16 and with the side bar 13 through the bolt 15 and said lever 12 is provided with a slot 17 which permits of a slight lateral movement of said lever upon the supporting member 13 as the lever is inclined toward the right and left.

As a means of securing my device in a fixed position while holding the rivet, I have provided the bars 5, 5, with a plurality of apertures 18 for the reception of the bolt 19 and said bolt 19 is inserted through one of said apertures 18, passing from thence into an aperture 20, formed in the supporting boiler, plate 21, while the opposite end of bolt 19 may if desired be inserted through a corresponding aperture 22, formed in the sheet 1 of the boiler, said apertures 20 and 22 being indicated by dotted lines in Fig. 2. It will be understood that when a cylinder and piston are substituted for the lever 12, said cylinder and piston are supported direct from the frame 14 in alinement with said slidable member 8. It will also be understood that similar devices to that shown may if desired, be made of different sizes to conform to the size of the boiler or other device with which said device is used.

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

In a device of the described class for upsetting rivets the combination of a stationary member, a bar slidably attached to said stationary member, a weight pivotally attached to one end of said stationary member,

a link pivotally connected at one end to said slidable member and at its opposite end to said weight and means for communicating a longitudinal movement to said slidable bar, whereby said weight is adapted to be brought in contact with and moved away from the head of the rivet to be upset.

In testimony whereof I affix my signature in the presence of two witnesses.

HENRY J. KROSCOVSKI.

Witnesses:
JAS B. ERWIN,
HELEN C. VAN RYN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."