

G. W. RIEBE.
PALLET SETTING IMPLEMENT.
APPLICATION FILED MAR. 31, 1909.

940,278.

Patented Nov. 16, 1909.

Fig. 1.

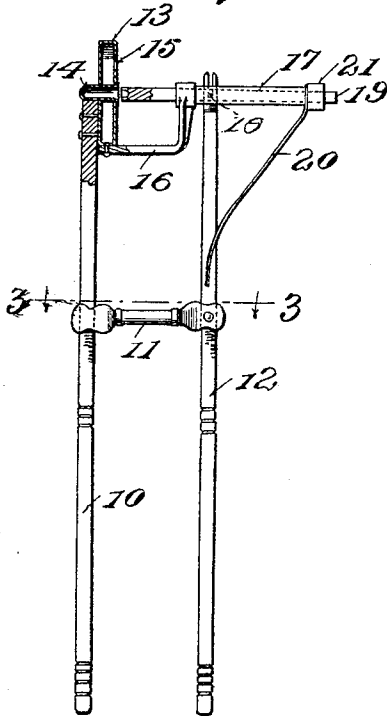


Fig. 2.

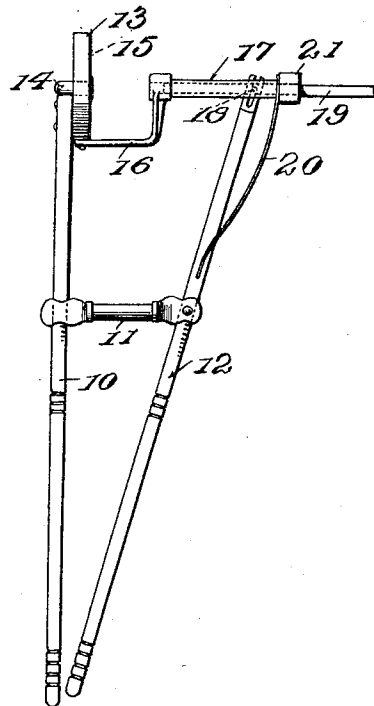


Fig. 3.

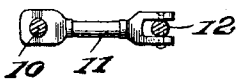


Fig. 4.

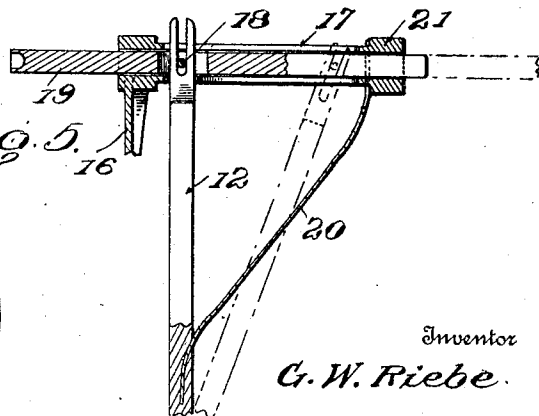
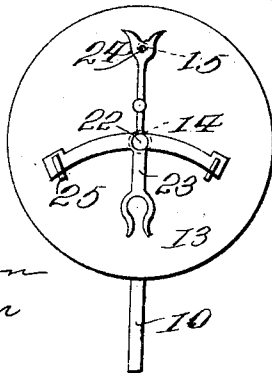


Fig. 5.



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UNITED STATES PATENT OFFICE.

GUSTAV W. RIEBE, OF ITASCA, WISCONSIN.

PALLET-SETTING IMPLEMENT.

940,278.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GUSTAV W. RIEBE, a citizen of the United States, residing at Itasca, in the county of Douglas and State of Wisconsin, have invented certain new and useful Improvements in Pallet-Setting Implements, of which the following is a specification.

This invention relates to watch maker's implements and refers particularly to a device for retaining the pallet during the setting of stones therein.

An object of this invention is to provide means in an implement of this character whereby the stone will be protected from the immediate heat of the lamp when the cement is melted and to provide an anvil which may be quickly heated.

Another object of this invention is to provide an improved leverage system in connection with the handles of the implement whereby the pallet is firmly retained by the normal position of the handles and the pallet may be quickly and readily released by a slight pressure upon the handles.

The invention further provides the construction of an implement of this character which is of simple operation and with which the heating of the stones and the adhesive substance cementing the same may be carried on with rapidity and at the same time the stones may be set with accuracy, owing to the provision of a central thimble or guide by means of which the pallet is supported.

The invention has for a still further object the provision of an improved anvil which is formed with an air-chamber between the stone supporting surface and the surface upon which the flame plays to heat the anvil, thus protecting the pallet and stones from intense heat and at the same time admitting of sufficient heat to fuse the shellac or other setting substance.

Other objects, advantages and the specific structure and operation will be more fully set forth in the following description and accompanying drawings, in which:

Figure 1 is a side elevation of the complete implement, part of the same being disclosed in section; Fig. 2 is a side elevation of the same showing the implement in an open position; Fig. 3 is a section on the line 3-3 of Fig. 1; Fig. 4 is a detailed sectional view of the outer end of the implement, the open position of the same being disclosed in dotted lines; and Fig. 5 is a top plan view

of the anvil disclosing a pallet supported upon the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawings the numeral 10 designates an arm which is adapted to be held rigidly and which carries intermediately thereof a bracket 11 which is forked at its outer extremity for the reception of a lever 12, being fulcrumed in the same. The rigid arm 10 is provided upon its outer extremity with an anvil 13, the same comprising a hollow cylindrical body which is provided centrally with a thimble 14 which is open at one end, the open end terminating in the upper face of the anvil 13. The thimble 14 is adapted for the reception of the arbor 22 of a pallet 23 within which is to be set the stones which are protected from the heat of the lamp, over which the anvil is held, by the closing of the outer end of the thimble. The anvil 13 is also provided with an aperture 15 disposed in the face thereof into which is adapted to be inserted the banking pin 24 of the pallet 23 while the stone is being set. The pallet 23 is thus held rigidly from lateral movement upon the anvil as the pallet 23 is secured centrally, by the engagement of the arbor 22 in the thimble 14, and at one end, by the insertion of the banking pin 24 through the aperture 15 in the anvil 13.

The anvil 13 carries upon its inner side a brace 16 which is curved at its outer extremity centrally to overhang the thimble 14 and is provided at its overhanging portion with a sleeve 17 which is longitudinally slotted at its opposite sides through which the outer extremity of the lever 12 is engaged and adapted for slidable movement. The lever 12 is transversely forked at its outer extremity to engage about a pin 18 which is disposed through a bar 19 which is slidably disposed within the sleeve 17, the bar 19 being provided with an opening centrally formed therethrough, and about the pin 18 to admit of the insertion of the forked end of the lever 12. The inner end of the bar 19 is hollowed for the reception of the outer end of the arbor 22 when the same is carried in the thimble 14. For the purpose of normally retaining the bar 19 against the thimble 14 a spring 20 is employed which is rigidly secured at its op-

posite extremities to the forward end of the lever 12, and to a head 21 formed upon the outer end of the sleeve 17 to depress the outer end of the lever 12 and to thereby hold the bar 19 against the thimble 14.

It is readily seen that when the arbor 22 is positioned in the thimble 14 and the anvil 13 is held over the flame of the lamp that the stones 25 carried by the pallet 23 are protected from the flame by reason of the double wall of the anvil 13. The pallet 23 is so positioned upon the anvil as to dispose the arbor 22 within the thimble 14 and to engage the banking pin 24 in the aperture 15, to retain the pallet 23 from lateral movement. The lever 12 is now released when the spring 20 forces the outer end of the same in the direction of the anvil and causes the sliding of the bar 19 through the sleeve 17 to engage the bar upon the upper end of the arbor 22.

Owing to the fact that the anvil 13 is hollow and of cylindrical formation the same can be quickly heated throughout and raised to the desired temperature, thereby producing an implement which is adaptable for quick use and one which is provided with an anvil which may be uniformly and gradually heated throughout without injury to the pallet 23 and stones 25. By depressing the inner end of the lever 12 the outer end is caused to slide through the sleeve 17 and to carry the bar 19 therewith thereby admitting of the positioning and the removing of the pallet 23 from the anvil 13.

The aperture 15 also serves the purpose of admitting air to the cylinder upon the cooling of the same, in consequence of the contraction of the air therein, and also admits of the escape of the air from the anvil 13 when heated as the air is expanded thereby.

Having thus described the invention, what is claimed as new is:

1. A pallet setting implement including a

lever, an anvil mounted about said lever, a bracket rigidly disposed on said lever at an intermediate point thereof, a second lever pivoted in said bracket, a brace carried by said anvil and extended over the same, a sleeve mounted on said brace and slotted to receive the outer end of said second lever, a bar slidably disposed in said sleeve and connected with said second lever and a spring disposed between said sleeve and said second lever.

2. A pallet setting implement including a lever, a bracket rigidly carried by said lever and extended outwardly therefrom, a second lever pivotally disposed in the outer end of said bracket, an anvil carried by said first lever, a brace disposed upon said anvil and curved in over-hanging relation to the same, a sleeve mounted upon said brace and having longitudinal slots formed in the opposite faces thereof for the reception of said pivoted lever, a bar slidably disposed through said sleeve and being centrally apertured to loosely receive said pivoted lever, a pin carried by said bar at the apertured portion to engage said pivoted lever, and a spring disposed between said sleeve and said lever for depressing said bar.

3. A pallet setting implement including a lever, a second lever pivotally carried by said first lever, a sleeve supported upon said first lever, and longitudinally slotted for the reception of the extremity of said second lever, a bar slidably disposed in said sleeve and connected to said second lever to be actuated thereby, and a spring connected between said sleeve and said second lever to depress said bar.

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

GUSTAV W. RIEBE. [L. s.]

Witnesses:

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