

(No Model.)

C. WEIGANT.
BLACKSMITH'S HAMMER.

No. 503,630.

Patented Aug. 22, 1893.

Fig. 2.

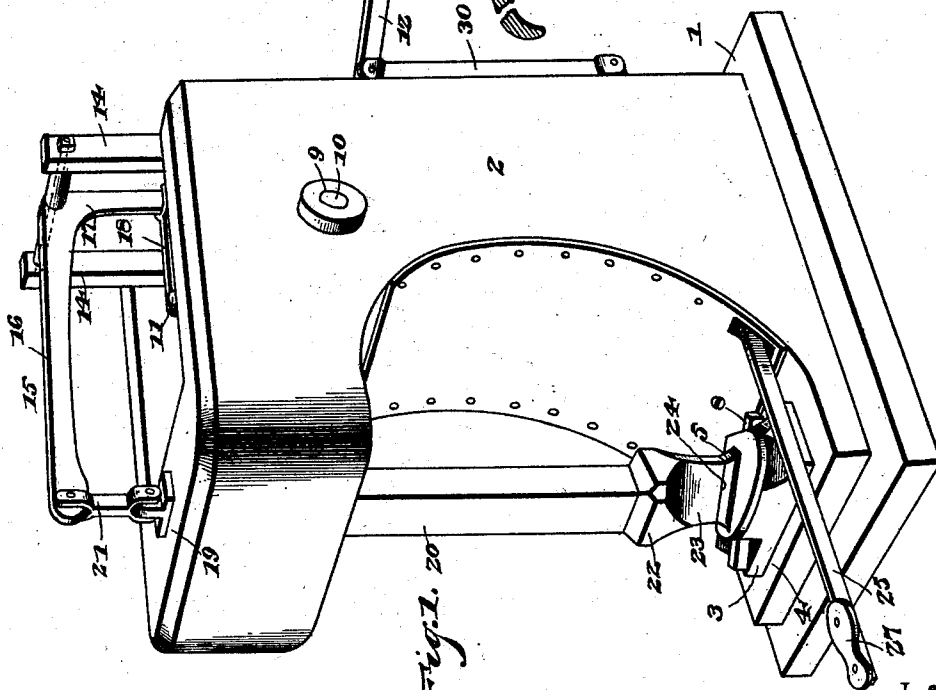
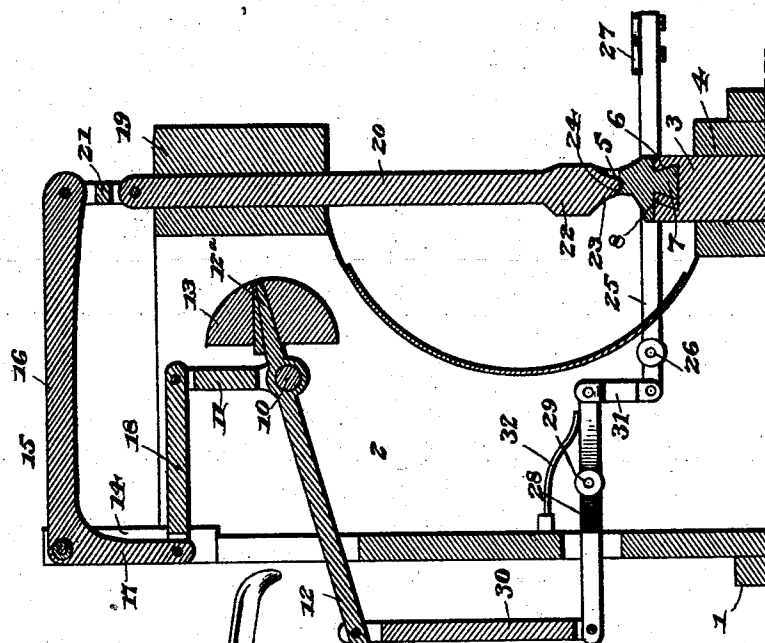


Fig. 1.

Witnesses

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UNITED STATES PATENT OFFICE.

CASPER WEIGANT, OF PORTLAND, OREGON.

BLACKSMITH'S HAMMER.

SPECIFICATION forming part of Letters Patent No. 503,630, dated August 22, 1893.

Application filed February 28, 1893. Serial No. 464,092. (No model.)

To all whom it may concern:

Be it known that I, CASPER WEIGANT, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Blacksmith's Hammer, of which the following is a specification.

My invention relates to a hammer for blacksmith's use, the same consisting in a certain novel construction and arrangement of devices which are fully described hereinafter and specifically pointed out in the appended claims.

In the drawings—Figure 1 is a perspective view of a device embodying my invention. Fig. 2 is a vertical central sectional view of the same.

1 represents the base from which rises a hollow standard 2, and 3 represents a pedestal which fits removably in a box 4. The lower die 5 is detachably secured to the top of the pedestal 3, the latter being provided with a groove 6 into which depends a tongue 7 upon the die, the latter being secured in the groove by means of a key 8.

Mounted in transversely aligned bearings 9—9 in opposite sides of the standard, is a shaft 10 provided with an upright arm 11 which is integral with the shaft. Also attached firmly to said shaft is an operating lever 12 to an extension 12^a of which is fixed a counter-balancing weight 13.

Projecting vertically from the upper ends of the sides of the standard are parallel ears 14, and pivoted between the upper ends of such ears is a bell-crank-lever 15, having a horizontal arm 16 and a vertical arm 17. The extremity of the depending vertical arm 17 is connected by means of a link 18 to the upper end of the arm 11.

19 represents a guide yoke which is arranged at the front of the hollow standard 2, overhanging the pedestal, above described, and slidably fitted in this guide yoke is the hammer shank or stem 20, which is loosely connected, at its upper end to the front end of the horizontal arm 16 of the bell-crank lever 15, by the link 21. The shank or stem 20 is provided at its lower end with the hammer-head 22.

The hammer-head is provided with a diag-

onally elongated post 23 to agree with the similarly disposed face 24 of the die 5.

It will be understood that various forms of dies may be employed in my improved device. 55

25 represents a foot-lever pivoted at 26 between the sides of the standard and provided at its free end with a step 27.

28 is an intermediate lever also pivoted between the sides of the standard, as shown at 29, and connected at its rear end by means of a link 30 to an intermediate point of the hand lever 12 and at its front end to the rear end of the foot-lever by the link 31.

32 represents a pressure spring which is arranged to depress the front end of the intermediate lever 28 to assist the counter balancing weight 13 in the elevation of the hammer-shaft.

From the above description it will be seen that my improved hammer may be operated either by hand or by foot-power. The peculiar arrangement of the levers being such as to combine compactness with a maximum amount of power. Changes in the form, proportion, and minor details of construction may be resorted to without departing from the principles or sacrificing any of the advantages of my invention. 75

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a device of the class described, the combination with a hollow standard provided with a guide-yoke, of a shaft 10 provided with 85 an arm 11, an operating arm fixed to the shaft 10 and provided with a counterbalancing weight, an angle-lever having a depending arm loosely connected by a link to the free end of the arm 11, and a shank or stem loosely 90 connected at its upper end to the free terminal of the other arm of said angle-lever and fitting slidably in said guide-yoke, substantially as specified.

2. In a device of the class described, the combination with a standard provided with a guide-yoke, a shank or stem slidably fitted in said yoke, a bell-crank lever having one of its arms loosely connected with said shank or stem, a rock-shaft provided with an arm which 100 is connected to the other arm of said bell-crank lever, and an operating handle con-

5 nected to said shaft, of a foot-lever, an intermediate lever connected at one end by a link to said operating handle and at the other end by a link to said foot-lever, and the pressure spring engaging said intermediate lever to elevate the free end of the foot-lever, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CASPER WEIGANT.

Witnesses:

JACOB KELTHAN,
J. F. WERSCHKUL.