

(No Model.)

H. A. OLDERSHAW.
EDGE SETTING MACHINE.

No. 571,602.

Patented Nov. 17, 1896.

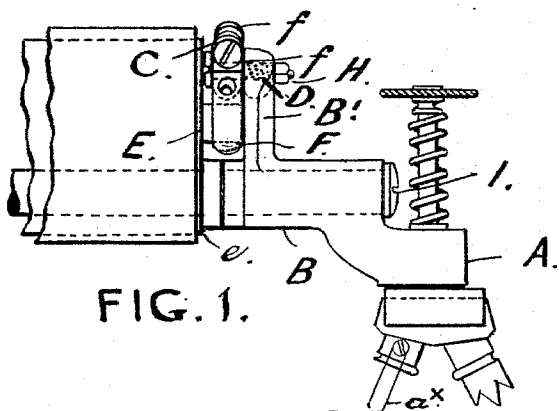


FIG. 1.

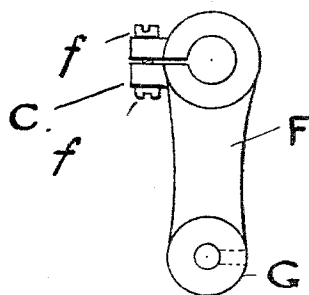


FIG. 2.

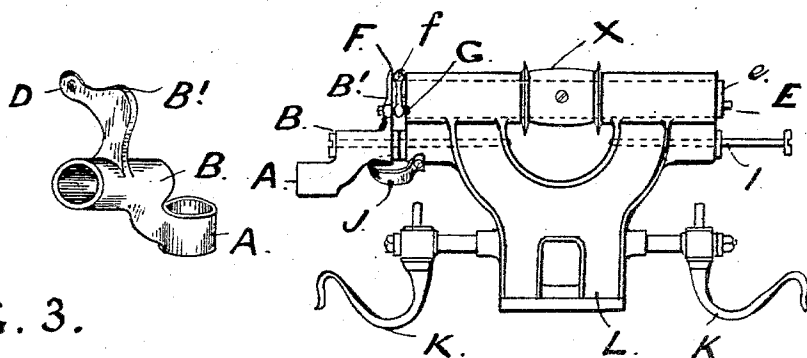


FIG. 3.

FIG. 4.

INVENTOR.

WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY ALFRED OLDERSHAW, OF LEICESTER, ENGLAND.

EDGE-SETTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 571,602, dated November 17, 1896.

Application filed June 10, 1895. Serial No. 552,358. (No model.) Patented in England December 7, 1894, No. 23,791.

To all whom it may concern:

Be it known that I, HENRY ALFRED OLDERSHAW, engineer, a subject of Her Britannic Majesty Queen Victoria, residing in Leicester, and carrying on my business at Nos. 38 and 40 Higher Cross Street, Leicester, in the county of Leicester, England, have invented a new and useful Improvement relating to Edge-Setting Machines, (for which I have filed an application for a patent in Great Britain, No. 23,791, bearing date of December 7, 1894,) of which the following is a specification.

This invention refers to improvements in or relating to edge-setting machines used in the manufacture of boots and shoes in finishing the sole edges and waist or the middles thereof, and are known as "twin machines," provided with a horizontal eccentric driving-shaft and tools fixed in holders at both ends thereof and vibrated by the rocking motion obtained from the revolving shaft, driven, as seen in Figure 4 of the accompanying drawings, from a pulley, such as X. By the means heretofore employed the excessive jarring occasions distress to the muscles of the operator in holding the boot or shoe up to the tools in burnishing the sole edges or other parts thereof. To obviate this, I construct the eccentrics on end of said shaft so that they occupy nearly the whole face of the circle and attach thereto a connecting-rod and strap secured to crank-arm of the fulcrumed tool-holder, each of which is shown in illustrations herewith, and in which—

Fig. 1 represents a side view of the appliance; Fig. 2, a plan of the strap and gear-rod C F; Fig. 3, a perspective view of the tool-holding device, showing the back part of the crank-arm B' planed flat to fit against the side of the gear-rod; and Fig. 4 is a front view of the head of a twin machine with the herein-described devices attached thereto in accordance with this invention.

The invention consists of a tool-carrying bracket, the lower tube A forming the tool-holder, the horizontal barrel or hollow body

B, the right-angled or cranked arm B', shaped so that its elbow covers the eccentric-strap C and gear-rod F, the strap C being secured upon the eccentric E by screws f, the outer screw-threaded end G of the rod F being coupled to the crank-arm by the pin and nut H, the former going through the hole D. The said hollow body B is carried on the fulcrum I, which is placed immediately under and in a vertical line with the bearings of the revolving shaft. A drip-bucket J is fitted underneath each tool-carrying device, and ordinary grips K are provided for the operator to take hold of in presenting the boot or shoe to the tools.

By obtaining an eccentric motion directly over the fulcrum of the tool-carrying bracket and coupling the gear-rod and strap thereto and to the eccentric of the driving-shaft, the jarring experienced by the muscles of the operator is reduced almost to a minimum. The said device can also be applied to existing machines which are provided with a horizontal revolving shaft of the character as illustrated in Fig. 4 of the drawings by altering the eccentric.

In desiring to secure Letters Patent I declare that what I claim is—

In machines for setting the edges, middles of soles, or waists of boots and shoes the arrangement of tool-carrying devices consisting of a lower tube, or tool-holder A, a horizontal barrel or hollow body B, a right-angled or crank arm B' shaped so that its elbow forms a cover for the front of the eccentric-strap C, and gear-rod F these being coupled to the cranked arm and eccentric of the driving-shaft, the said tool-carrying device being mounted on a fulcrum under and in a vertical line with the eccentric of and the bearings of the driving-shaft, all in the manner and for the purpose substantially as described.

HENRY ALFRED OLDERSHAW.

Witnesses:

WILLIAM VAUGHAN ICKE,
GEORGE WM. COLTMAN.