No. 697,356. Patented Apr. 8, 1902.

H. A. OLDERSHAW.

EDGE SETTING MACHINE.

(Application filed Nov. 16, 1900.)

(No Model.)

FIG. 1.

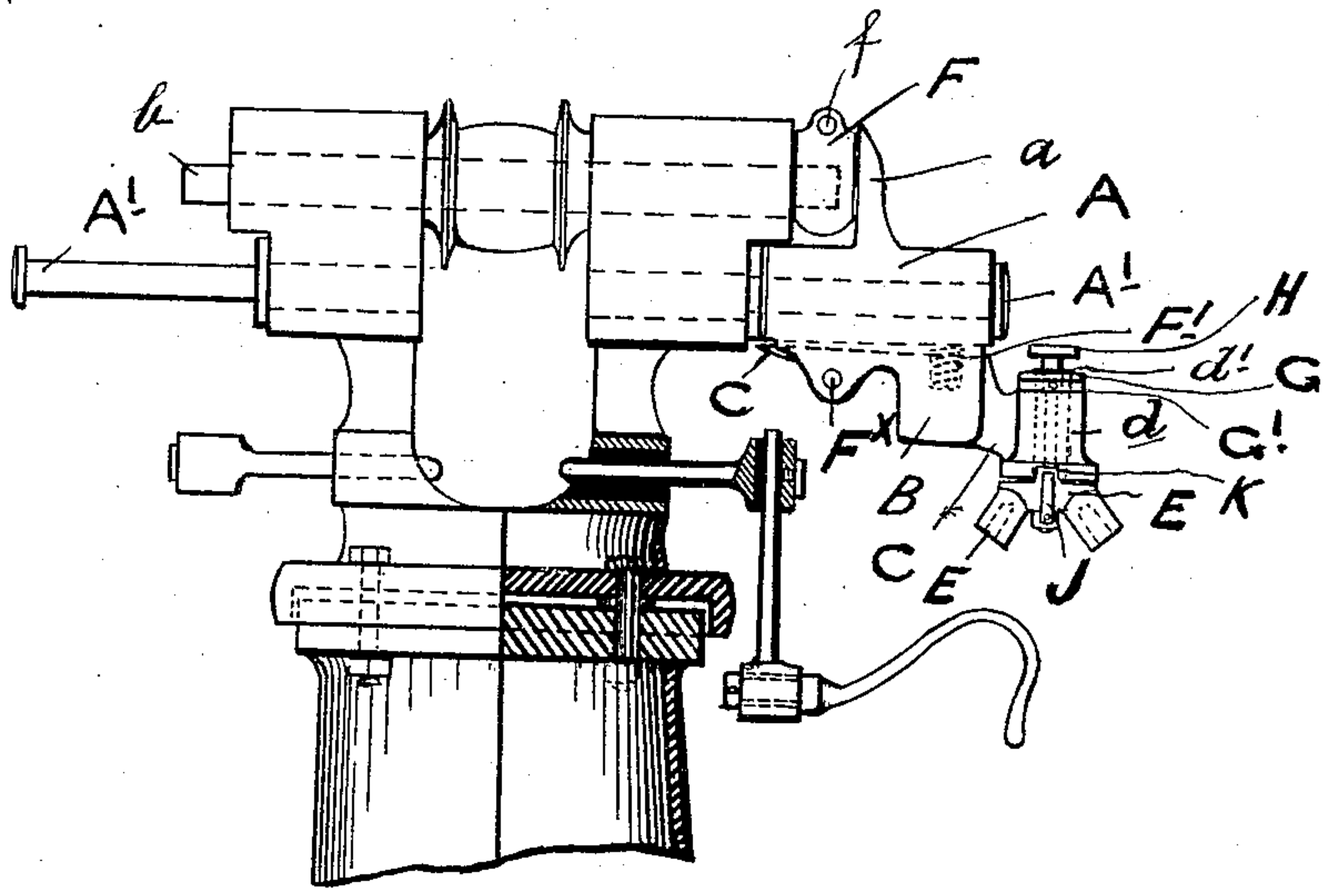
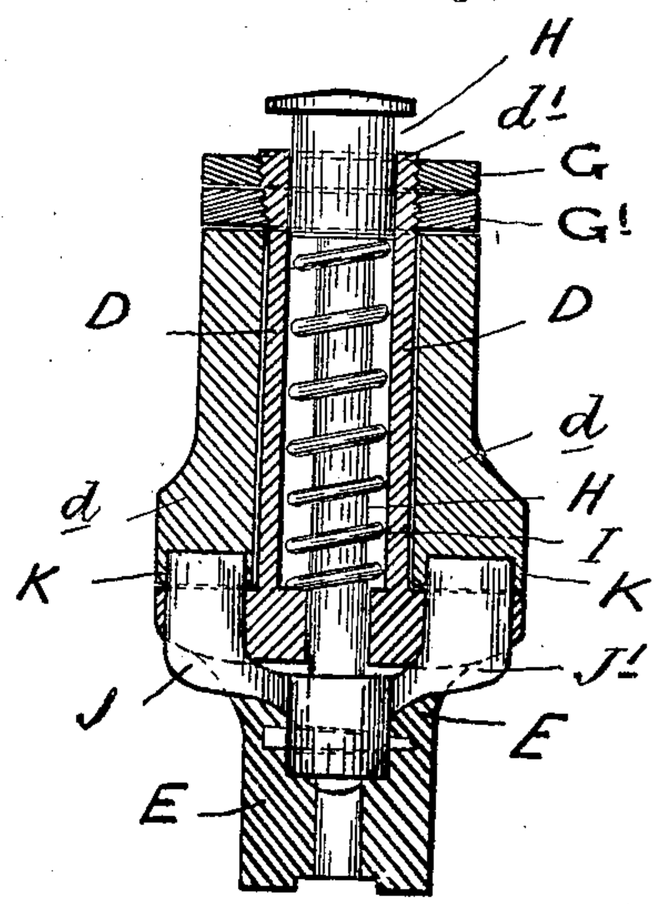


FIG. 2.



Witnesses.

Isaac Atkins

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per

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UNITED STATES PATENT OFFICE.

HENRY ALFRED OLDERSHAW, OF LEICESTER, ENGLAND.

EDGE-SETTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 697,356, dated April 8, 1902.

Application filed November 16, 1900. Serial No. 36,792. (No model.)

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 business at Nos. 38 and 40 Highcross street, Leicester, in the county of Leicester, England, have invented new and useful Improvements in or Relating to Single or Double Edge-Setting Machines Used in the Manufacture of Boots and Shoes, (for which I have filed applications for patents in the following countries: Great Britain, No. 7,523, bearing date as of April 24, 1900, and Empire of Germany on the 3d day of October, 1900,) of which the following is a specification.

This invention refers to improvements in or relating to single and double edge-setting machines used in the manufacture of boots and shoes in or for finishing the sole edges, waists, or middles thereof.

A sheet of drawings accompanies this specification, in which—

Figure 1 is a front elevation, partly in section, of the head and portion of the column of a twin machine, and Fig. 2 a front sectional view through the tool-holder body *d*.

Similar letters of reference are employed to designate the same parts in the several views.

The object of the present invention is to provide means or devices to obviate rust or rattle to the tool-spindle, spring, and the shaking of the tool-carriers. Hitherto the spindle, spring, and sleeve have been exposed to the dampness arising from the gas-jets employed to heat the irons, and the tool-carriers work loose in wear. This was experienced in my former patent, No. 571,602, dated November 17, 1896. This is obviated by having the spindle and spring inclosed within the sleeve and the sleeve locked within the tool-holder body, as seen in Fig. 2 and hereinafter described.

According to this invention the fulcrumed oscillating lever A, which is mounted on the pin A′, is provided with a central arm *a*, connected at its outer end to a strap F, fitted on the eccentric end or ends *b* of the driving-shaft, such strap being secured by the usual screw and nut *f*. The fulcrumed lever A is cast with the lugs, ears, or extensions B or rattle-preventing oscillating lug, which is pivotally connected to the locking-wing C, formed integral with the vertically-disposed tool-holder body *d*, which is bored out to receive the sleeve D, having at the bottom the tool-carrying arms E, the upper flat portion fitting to the tool-holder body *d*, said locking-wing C being secured at F× to the oscillating lug B, formed on the vibrating lever A. The spring F′ (dotted line, Fig. 1) fits in a hole in the upper flat face of the locking-wing C and presses against the bottom flat surface of the vibrating lever A. The upper screw-threaded end of the tool-carrying sleeve D projects above the tool-holder body *d* and receives the two locking-nuts G G′. The two-diameter spindle H fits within the sleeve, and its narrower part carries the open spring I and the forked bolts or catches J J′, which by influence of said spring are held in the slots K, cut opposite to each other in the bottom rim of the tool-holder body *d*; but when the said spring is compressed by the operator pressing the cap of the spindle the bolts or catches J J′ leave the slots K, and the tools can be changed at the will of the operator.

I am aware that the process of changing the tools is not new in edge-setting machines by pressing the top of the spindle; but I do not claim this, and, having reference to the advantages gained by the present invention over the one forming the subject of the Patent 571,602, I would have it known that

What I desire to secure by Letters Patent and claim is—

In a machine of the character specified a tool-holder comprising a body in which is fitted a sleeve its screw-threaded end projecting beyond said body so as to be locked by two nuts, said sleeve carrying tool-holder arms; a two-diameter spindle fitting within said sleeve and carrying bolts or catches which under the influence of an open spring on the narrower portion of said spindle engages slots cut out opposite to each other in the rim of the tool-holder body, said body having a locking-wing fitting within lugs of a vibrating lever, substantially as described and set forth.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

HENRY ALFRED OLDERSHAW.

Witnesses:
ISAAC ATKINS,
ARCHIBALD SMITH.