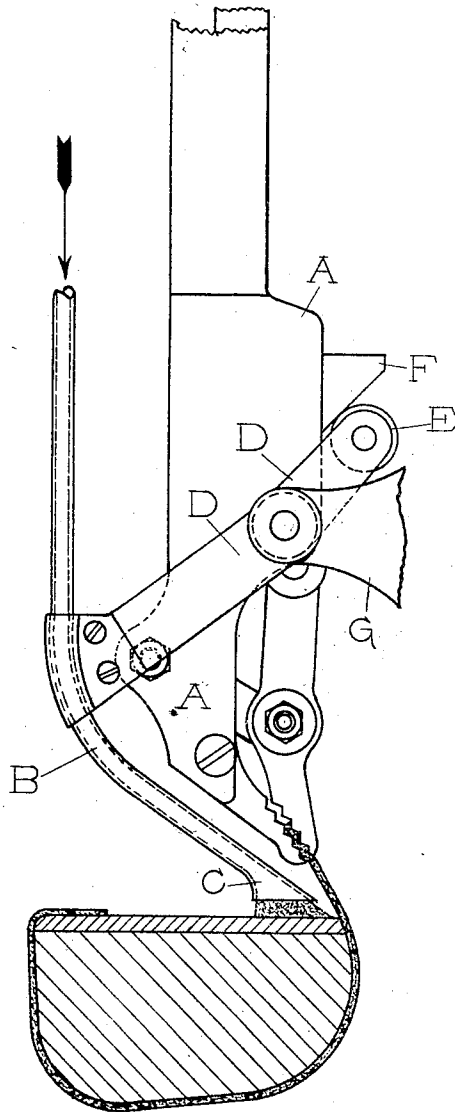


P. A. M. KIENER.
LASTING MACHINE.
APPLICATION FILED NOV. 2, 1911.

1,042,799.

Patented Oct. 29, 1912.



Witnesses:
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UNITED STATES PATENT OFFICE.

PAUL ALBERT MAX KIENER, OF LEIPZIG, GERMANY.

LASTING-MACHINE.

1,042,700.

Specification of Letters Patent.

Patented Oct. 29, 1912.

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To all whom it may concern:

Be it known that I, PAUL ALBERT MAX KIENER, a citizen of the Empire of Germany, and a resident of Leipzig, in the Kingdom of Saxony, Germany, have invented certain new and useful Improvements in Lasting-Machines, of which the following is a specification.

This invention has reference to improvements in lasting machines used in shoe manufacture for securing the soles and uppers together. In lasting machines of this type the uppers are seized by grippers, drawn smoothly and placed upon the first or inner sole. For joining the uppers and the inner sole, small nails or pins are used which are again removed later on in certain kinds of shoes for the purpose of imparting greater elasticity and light weight.

According to the present invention such lasting machines are provided with a device for applying a glutinous substance or a solvent for a glutinous substance or paste, if same was applied before. This device is so arranged that the glutinous substance, or solvent for same is supplied where the work is done just before the securing takes place.

In the accompanying drawing a lasting machine is illustrated in side elevation, partly in section which embodies in desirable form the present improvements.

In the form of lasting machine illustrated there is a conduit B movably mounted so that it is actuated by the grippers A when same ascend and descend whereby its discharge opening C may be brought down to the place where the work is done and withdrawn therefrom. For this purpose the conduit B is secured in one end portion of a lever D which is pivotally connected to the machine frame G. This lever carries on its free end portion a roll E resting against a nose F of the grippers A. When the grippers descend the nose F pushes the roll E laterally and thereby the lever D whereby the discharge opening C of the conduit B avoids contact with the uppers to be turned over. Now the uppers may be secured to the first or inner sole. The movement of the conduit B may also be effected in other ways by means of known and approved construction, for instance, laterally, upwardly, or in any other direction. Likewise, the device for supplying glutinous substance or an adhesive may be varied within certain limits

without departing from the spirit of this invention.

In place of the glutinous substance a solvent for same may be used when the first or inner sole or the portion of the uppers to be operated on was treated before with an adhesive which has already hardened.

The above described attachment may be applied to machines with single grippers or to machines provided with a plurality of tongs.

I claim as my invention:

1. In a machine for joining the uppers of shoes to the inner sole, a frame, grippers mounted thereon, a lever pivotally connected to said frame, a conduit for supplying glutinous substance or a solvent of same to the place where the work is done mounted on one end portion of said lever, and means at the second free end portion of said lever and on the grippers for actuating same and thereby the conduit.

2. In a machine for joining the uppers of shoes to the inner sole, a frame, grippers mounted thereon, a lever pivotally connected to said frame, a conduit for supplying glutinous substance or a solvent of same to the place where the work is done mounted on one end portion of said lever, a nose on said grippers adjoining the second end portion of the lever, and means on said second free end portion of the same for actuating said lever and conduit to impart an ascending and descending motion.

3. In a machine for joining the uppers of shoes to the inner sole, a frame, grippers mounted thereon, a lever pivotally connected to said frame, a conduit for supplying glutinous substance or a solvent of same to the place where the work is done mounted on one end portion of said lever, a nose on said grippers adjoining the second end portion of the lever, means on said second free end portion of the same for actuating said lever and conduit to impart an ascending and descending motion, so arranged that the grippers actuate the conduit for supplying glutinous substance or a solvent of same before the uppers are stretched.

4. In a machine for joining the uppers of shoes to the inner sole, a frame, grippers mounted thereon, a nose on the stock of said grippers, a lever pivotally connected to the frame adjoining said nose, a conduit for supplying glutinous substance or a solvent

of same to the place where the work is done mounted on one end portion of said lever, and a roll mounted on the second free end portion of the same and resting against the projecting nose of the grippers and adapted to be operated automatically by the movement of said grippers.

Signed at Leipzig, Germany, this 18th day of October, 1911.

PAUL ALBERT MAX KIENER.

Witnesses:

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