

(No Model.)

E. GRAHAM & J. JACQUART.
APPARATUS FOR PREPARING ENDS OF STOVEPIPES FOR JOINING.
No. 586,334.

Patented July 13, 1897.

Fig. 1.

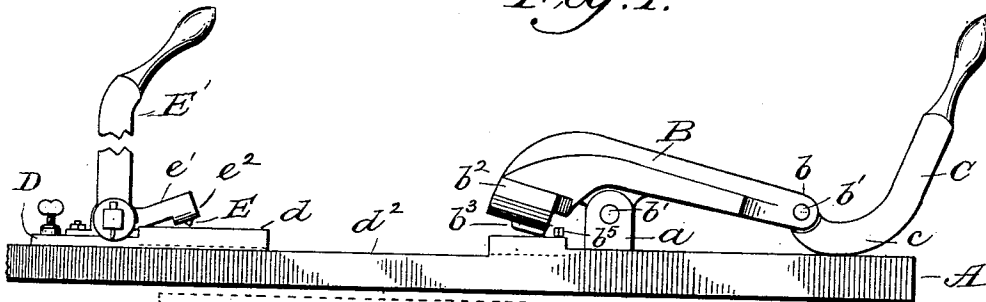


Fig. 2.

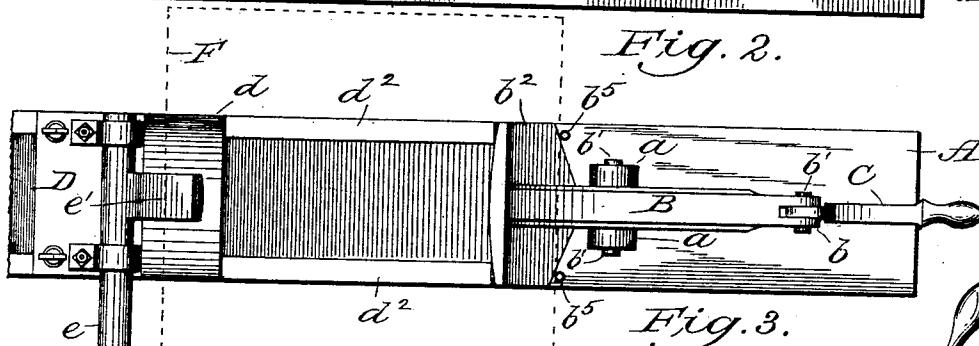


Fig. 3.

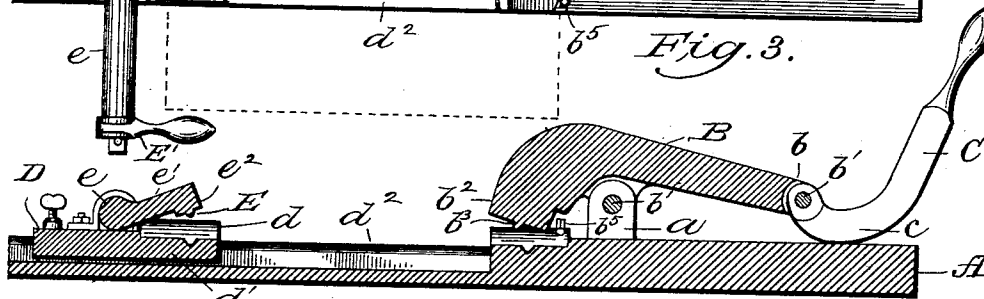


Fig. 4.

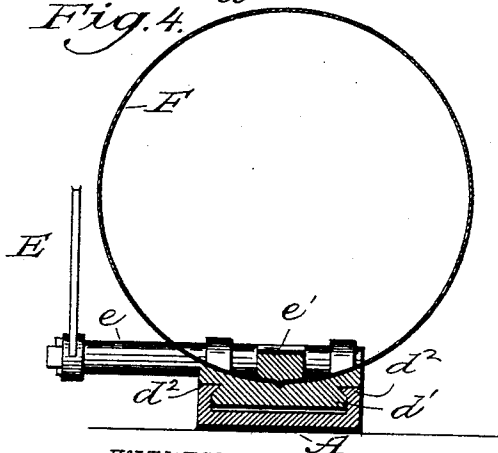


Fig. 5.

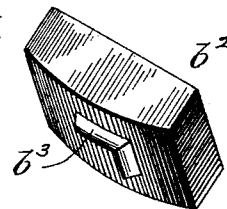
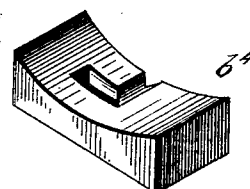


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

ELIAS GRAHAM AND JACOB JACQUART, OF BROCTON, ILLINOIS.

APPARATUS FOR PREPARING ENDS OF STOVEPIPES FOR JOINING.

SPECIFICATION forming part of Letters Patent No. 586,334, dated July 13, 1897.

Application filed October 5, 1896. Serial No. 607,842. (No model.)

To all whom it may concern:

Be it known that we, ELIAS GRAHAM and JACOB JACQUART, citizens of the United States, residing at Brocton, in the county of Edgar and State of Illinois, have invented certain new and useful Improvements in Stovepipes; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in tinners' apparatus, and has more particular relation to apparatus for preparing the ends of stovepipe to be fastened together.

The invention consists of certain novel constructions, combinations, and arrangements of parts, all of which will be hereinafter more particularly set forth and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 represents a side elevation of the devices embodying our invention. Fig. 2 represents a top plan view of the same. Fig. 3 represents a central vertical longitudinal section through said devices. Fig. 4 represents a transverse vertical section through the movable block; and Figs. 5 and 6 represent, respectively, plan views of the bayonet-slot-forming dies.

A in the drawings represents the base of our improved device; B, the die-carrying lever mounted thereon; C, the segmental lever connected to said die-lever; D, the sliding block, and E the pivoted punch mounted thereon.

The base A may be of any desired construction. The lever B is mounted at one end of the base A by means of apertured lugs *a*, mounted upon said base, and an apertured lug *b*, mounted upon said lever B, a suitable securing-pin *b'* being passed through the apertures of said lugs after they are in position. The forward end of the said lever B is formed with a die-block *b²*, having an angular die *b³* formed on its lower face. This die is depressed to engage a die *b⁴*, formed on the base A by means of an operating-lever C, pivoted to the rear end of the lever B and provided with a segmental portion *c*, adapted to engage the upper surface of the base A when said lever C is operated, and thus raise the rear end of the lever B and depress the forward

end carrying the die *b²*. The said dies *b²* and *b⁴* are curved in cross-section to correspond with the curvature of the pipe F, into which the bayonet-slot is to be stamped. The end of the pipe is slipped in between said dies before the lever B is operated until its inner end contacts with gage-bolts *b⁵*, mounted in the upper side of the base A.

It will be observed from the foregoing description that it is simply necessary to slip the end of the pipe F between the dies until it strikes the gage-bolts *b⁵* and then depress the upper end of the lever C in order to form a bayonet-slot in this end of the pipe. At the same time that this operation is in progress the opposite end of said pipe F may be receiving an impression from the pivoted stamp E. This stamp comprises a lateral shaft *e*, suitably journaled upon the upper surface of the block D and provided at its middle with a stamping-arm *e'*, having a stamping or embossing projection *e²*. The end of the said shaft *e* is squared, so that a suitable operating-lever E' may be applied thereto to rotate said shaft and cause the arm *e'* to descend with sufficient force to stamp a teat or projection upon the end of the pipe by means of the projection *e²*, with which it is provided. The said block D is provided upon its upper surface with a curved cradle *d*, in which the rear end of the pipe F is adapted to be firmly held during the stamping operation. The block D is provided upon its under side with a dovetail guiding-piece *d'*, adapted to fit in between spaced dovetail guides *d²* *d²*, mounted upon the base A, suitable adjusting-bolts passing through said block D and engaging the upper surface of said guides *d²* for locking said block D in any of its adjusted positions. This adjustability of the block D is necessary because of the varying lengths of pipes that are to be stamped.

It will be observed from the foregoing description that the pipe is stamped at one end with a bayonet-slot and at the other with a suitable projection adapted to enter a bayonet-slot formed in an adjoining section of pipe and lock the two sections firmly together. It will also be observed that the stamping operation at the respective ends of the pipe may be accomplished simultaneously by operating the levers C and E'. If so desired,

the dies b^2 and b^4 may be removably attached in position, so that they may be replaced by others if they become injured or broken. It will also be observed that by the peculiar arrangement of the operating-lever C we secure great leverage and can stamp the bayonet-slot in the end of a pipe with the expenditure of very little power.

This device may be made of sufficient lightness to be carried about from place to place with the tinner's kit, so that the desired lengths of pipe may be first cut and then stamped with the securing bayonet-slot and projections.

Having now described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a suitable base, of a lever mounted thereon, dies mounted upon said lever and base respectively for forming a bayonet-slot in the end of a stovepipe, a punch mounted upon the opposite end of said base and adapted to form a teat or projection upon the opposite end of said stovepipe, substantially as described.

2. The combination with a suitable base, a block adjustably mounted upon the same, a stamp mounted upon said block and adapted to stamp a teat or projection upon one end of a stovepipe, a lever mounted upon said base and dies mounted upon said lever and base respectively, for stamping a bayonet-slot in the opposite end of said stovepipe, substantially as described.

3. The combination with a suitable base, of means mounted thereon for stamping a

bayonet-slot in the end of a stovepipe, a slide mounted on said base, means for locking said slide in its adjusted positions, a curved support or cradle mounted upon said slide and adapted to receive the end of a stovepipe, and a punch also mounted upon said slide and adapted to punch a projection or teat upon one end of a stovepipe, substantially as described.

4. The combination, with a suitable base, of a die-lever pivoted upon the same, a segmental lever mounted on said die-lever and adapted to engage the base to operate said pivoted lever and dies formed on said die-lever and base respectively for forming a bayonet-slot in the end of a stovepipe, substantially as described.

5. The combination, with a suitable base, of a die-lever upon the same, a segmental lever pivoted to one end of said lever and adapted to engage the base to operate said die-lever, dies formed upon said pivot-lever and the base respectively and adapted to stamp a bayonet-slot in the end of a stovepipe, and gages mounted in said base to limit the movement of the stovepipe past the dies, substantially as described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

ELIAS GRAHAM.
JACOB JACQUART.

Witnesses:

JAMES H. PAYNE,
HENRY S. MERKLE.