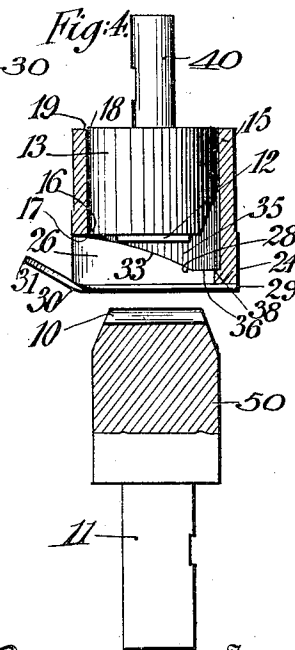
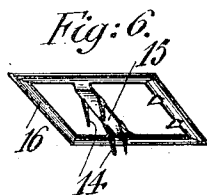
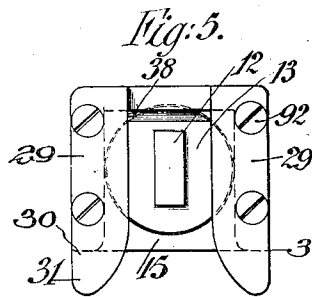
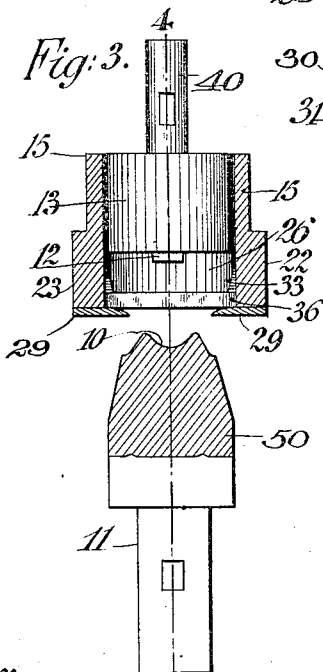
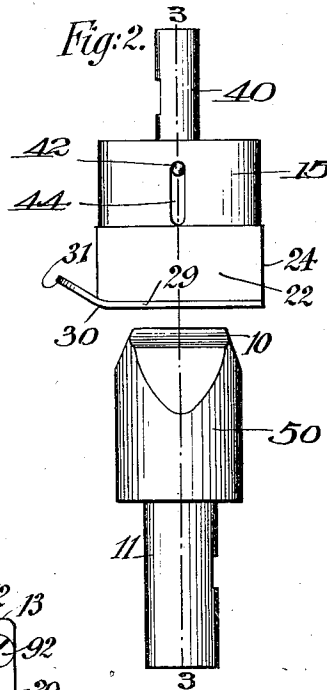
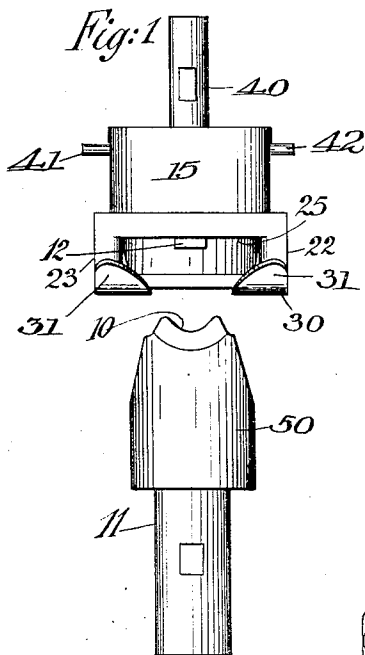


J. MATHERS.
BUCKLE ATTACHING MACHINE.
APPLICATION FILED SEPT. 2, 1911.

1,065,699.

Patented June 24, 1913.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH MATHERS, OF NEW YORK, N. Y.

BUCKLE-ATTACHING MACHINE.

1,065,699.

Specification of Letters Patent.

Patented June 24, 1913.

Application filed September 2, 1911. Serial No. 647,328.

To all whom it may concern:

Be it known that I, JOSEPH MATHERS, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Buckle-Attaching Machines, of which the following is a specification.

The object of this invention is to provide a simple device by means of which the buckle may be attached in an expedient manner.

The object of the invention is to provide a device by means of which the operatives may place in the same a buckle, and by means of the device the buckle will fall truly into position in and between the male and female dies.

For this purpose my invention consists of an improved buckle attaching machine comprising a male and female die, a holder therebetween, and an inclined chute on said holder for guiding the buckles to be attached, said holder having a curved recess and a projection, and having a flat portion underneath the same for holding the buckles in position during the clamping operation.

In the accompanying drawings, Figure 1 shows a front view of my improved device, Fig. 2 shows a side view of the same, Fig. 3 shows a vertical, central section taken on line 3—3 of Fig. 2, Fig. 4 is a vertical, central section taken on line 4—4 of Fig. 3, Fig. 5 is a bottom plan view, and Fig. 6 is a perspective view of the buckle to be operated upon.

Similar numbers of reference indicate corresponding parts throughout the several figures of the drawings.

This buckle attaching device comprises two dies and a buckle holder movable on the shank of one of the dies. This buckle holder is provided with an open bottom through which the dies work, with a lateral feed slot through which the buckle is inserted and with means for holding the buckle in proper position with reference to the dies to enable the latter to engage longitudinally the middle crossbar of the buckle and clench the prongs thereof to the fabric interposed between the dies.

In the form of embodiment of the invention herein illustrated, one of the dies preferably the female die 50 is secured to a standard 11 and provided in its upper face with a transverse cavity 10. The other die,

the male die, is in the form of a plunger 13 having on its lower face a transverse projection 12 preferably rectangular in shape and slightly smaller both in length and width than the concave recess 10 of the die 50. The plunger 13 is supported on a reciprocating rod 40 and is provided with lateral studs 41 and 42.

The buckle holder comprises a sleeve 15 slidable on the plunger 13 and provided with slots 44 engaged by the studs 41 and 42 on said plunger, said studs limiting the movement of the buckle holder. This sleeve preferably cylindrical in form is provided at its lower end with a buckle pocket, preferably rectangular in form, comprising side walls 22 and 23 and a rear wall 24. This pocket is open at its bottom and provided at its front with a feed slot 26 through which the buckle is fed into the holder. The side walls of the pocket are provided with guide shoulders 33 which are inclined downward from the feed slot 26 to a point near the rear of the pocket and thence extend parallel with the bottom thereof forming a holding and guiding slot 36 which engages the inner bar of the buckle. To form this guiding and holding slot the cylindrical portion 35 of the sleeve 15 is extended downward as shown in Fig. 4. The pocket is provided on each side of its bottom opening with guide strips 29 secured thereto by screws 92, said strips having upturned front extensions or lips 31. These guide strips with their upturned lips form with the shoulders 33 a guide slot to facilitate the insertion of the buckle. This guide slot with the recess 36 holds the buckle in proper position with its middle pronged bar parallel with the transverse groove and projection of the dies to insure the proper action of the latter. The rear wall of the buckle pocket is preferably provided with an inwardly projecting shoulder 38. Any equivalent means may be employed for holding the buckle so that its pronged crossbar will lie parallel with the active faces of the dies preparatory to the clenching operation. The fabric is placed underneath the guides 29 of the buckle pocket and between the dies, one of which is below said pocket and the other within or above it preparatory to the swaging operation.

The device described is extremely efficient by reason of the comparatively large diameter of the plunger operating in a cylin-

der with an extension, together being substantially the same size as the plunger, and also in that the recess is so formed in the buckle holder as to guide the buckles in position, and thereby insure their position and hold them there prior to the clamping operation of the dies. The inclined or bent portion 31 has a considerable inclination to serve to thrust the buckles downwardly into the proper position in the recess and guide slot.

I have described my invention and an embodiment thereof, but it is clear that changes may be made therein without departing from the spirit and scope of my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A machine for attaching buckles to fabrics comprising a die having a transverse curved recess arranged to receive the pronged crossbar of a buckle, a die having a transverse projection disposed opposite the recess of the first die and a buckle holder slidable on said second die and having an

open chamber through which said dies cooperate, a feed slot open at one side for the admission of the buckle and means for holding the buckle in position for the dies to engage its crossbar longitudinally thereof.

2. A machine for attaching buckles to fabrics comprising two dies, having respectively a transverse curved recess arranged to receive the pronged crossbar of a buckle and a transverse projection adapted to cooperate with said curved recess, and a buckle holder having a feed slot at one side for admission of the buckle, an open bottom through which said dies cooperate, and a guide and holding slot adapted to prevent rotation of the buckle and hold it in position for the dies to engage its crossbar longitudinally thereof.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

JOSEPH MATHERS.

Witnesses:

JAMES SKINNER, Jr.,
GEO. W. LEACH.