

No. 611,799.

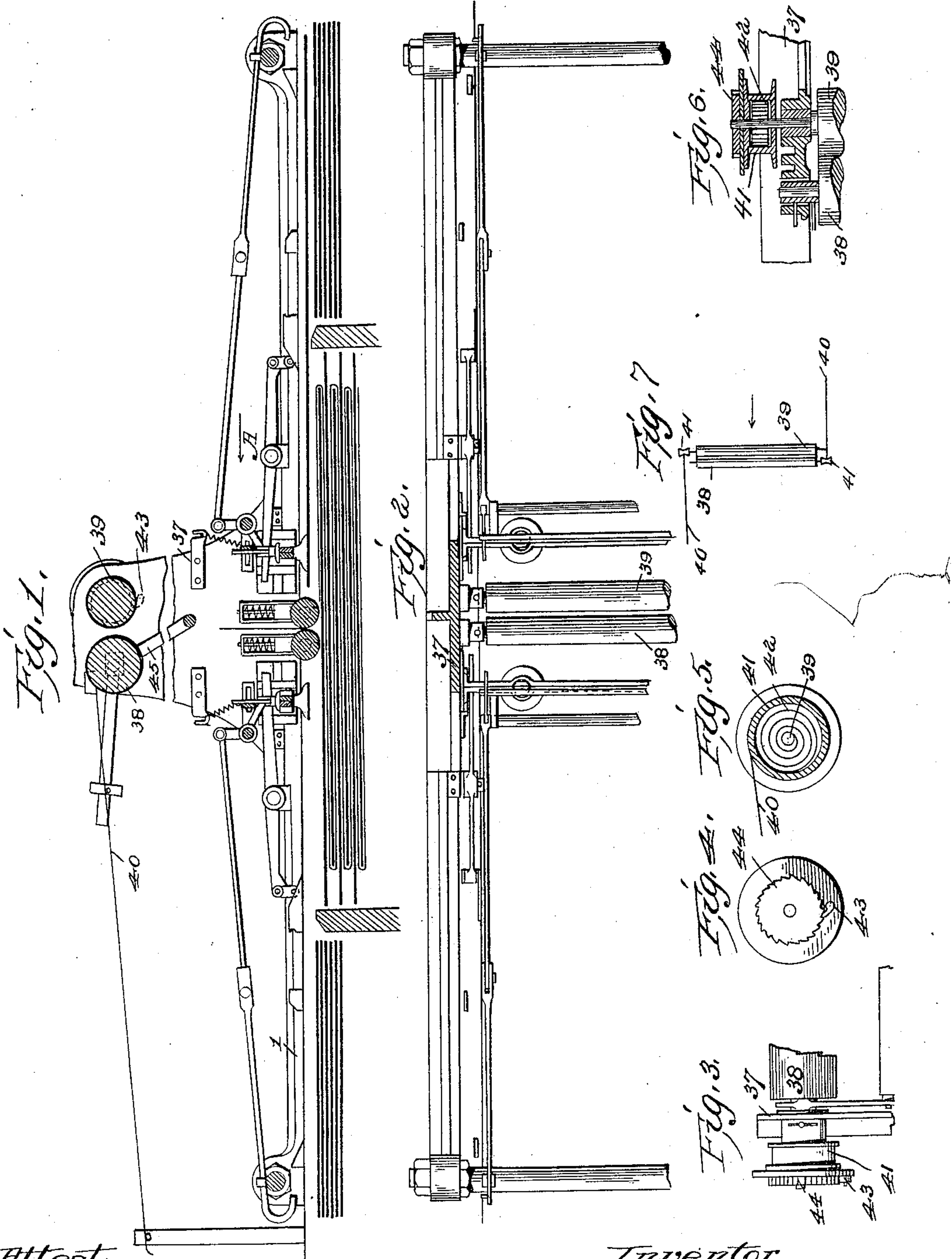
Patented Oct. 4, 1898.

G. A. SCHULZE.

FEEDING MECHANISM FOR CLOTH FOLDING MACHINES.

(Application filed July 20, 1896.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

GUSTAV ADOLPH SCHULZE, OF HALLE, GERMANY.

## FEEDING MECHANISM FOR CLOTH-FOLDING MACHINES.

SPECIFICATION forming part of Letters Patent No. 611,799, dated October 4, 1898.

Application filed July 20, 1896. Serial No. 599,983. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAV ADOLPH SCHULZE, a subject of the Emperor of Germany, and a resident of Halle, in the Empire of Germany, have invented certain new and useful Improvements in Feeding Mechanism for Cloth-Folding Machines, of which the following is a specification.

The said invention relates to improvements in machines for mechanically introducing presser-boards; and the object of the invention is to provide improved mechanism whereby the cloth fed in is made to keep pace with the folding.

In the accompanying drawings, Figure 1 shows a longitudinal sectional view of the essential mechanisms of the machine for mechanically introducing pressing-boards. Fig. 2 is a plan view of part of same. Fig. 3 shows a detail of the rolls, looking at Fig. 1 from the right. Fig. 4 is an end view showing only the drum on the roller 39. Fig. 5 is a detail of one of the drums, and Fig. 6 is a sectional view of the parts shown in Fig. 3. Fig. 7 is a detail view.

In Fig. 1, a longitudinal section of the machine, only the essential parts are actually shown, and consist of the table-slab, upon which the pressing-board is introduced between the goods and which must gradually be sunk in proportion to the number of inserted boards, as well as the plates of feeding-tables, which are not shown in the drawings. The stock of pressing-boards 14 is placed upon the latter at the right and at the left side of the table, where the laying between is done.

Upon a frame surrounding the central pressing-table and the lateral stock-tables travels a sliding carriage 1, which carries two sets of sucking cups or devices operated by suitable mechanism for causing them to engage and release the presser-boards at the proper intervals; but as these form no part of the present invention they are not described in detail herein.

In the frame or pedestal 37 of the sliding carriage are mounted cylinders 38 and 39, de-

signed to feed the required length of fabric into the machine and to take out folds or creases that may exist therein. The journals of the cylinders 38 and 39, respectively, have each a drum-pulley 41 loosely secured to one end thereof, in which the coil-spring 42 is located, one end of said spring being secured to its journal and the opposite end to the inner periphery of the drum. Each of the drums is provided with a flange to which a pawl 43 is pivoted, which engages with a ratchet-wheel 44, fixed to the journal carrying the drum of its respective pawl. The drums are rotated against the tension of these springs as the carriage moves in one direction by means of a strap or chain 40, (see Fig. 1,) provided for each drum, which is secured at one end to a fixed part of said frame and at its opposite end to the periphery of its respective drum carried by its respective roller 38 or 39, the strap 40 (shown in Fig. 1) being secured to the drum on roller 39 and the strap on the opposite side of the machine being secured to the drum on roller 38, as shown diagrammatically in Fig. 7. As the one drum rotates against the tension of its spring it will be understood that the opposite drum is caused to wind up its strap by means of the spring.

I claim—

In combination with the sliding carriage and means for taking up and releasing the presser-boards, means adapted to make the unwinding of the fabric or the feeding thereof keep pace with the motion of the sliding carriage, comprising the feeding-cylinders carried by the sliding carriage, spring-boxes 41, devices to connect the boxes to the cylinders, and belts 40 connected with the boxes 41, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GUSTAV ADOLPH SCHULZE.

Witnesses:

F. KOLLM,  
W. HAUPT.