

E. BLAUVAC.
 DEVICE FOR STRETCHING IRON BANDS OF PACKING CASES.
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917,407.

Patented Apr. 6, 1909.

Fig. 1

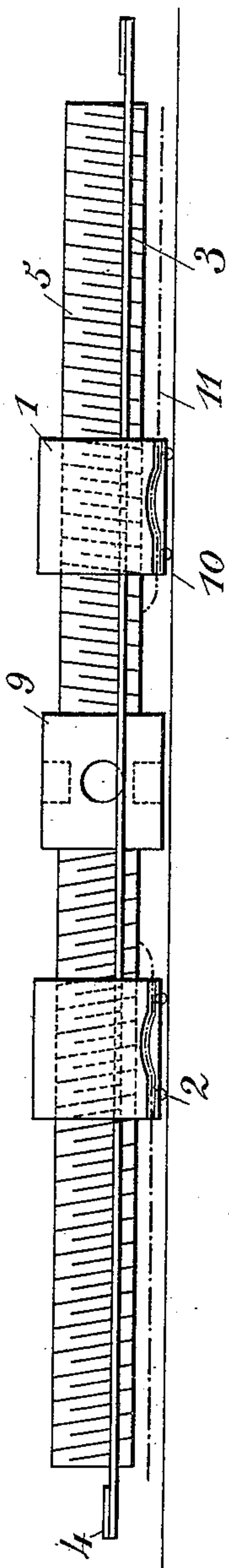


Fig. 2

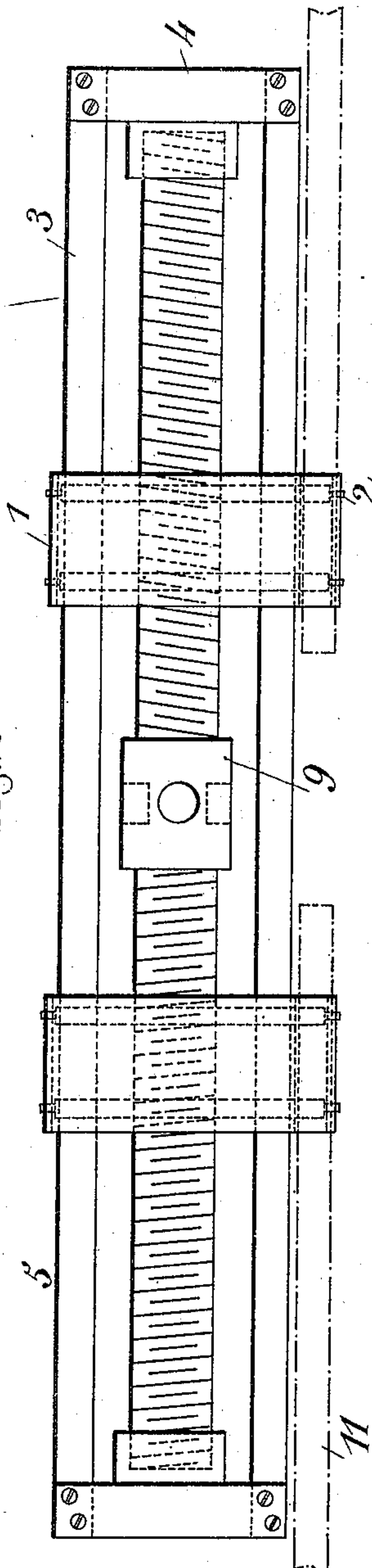
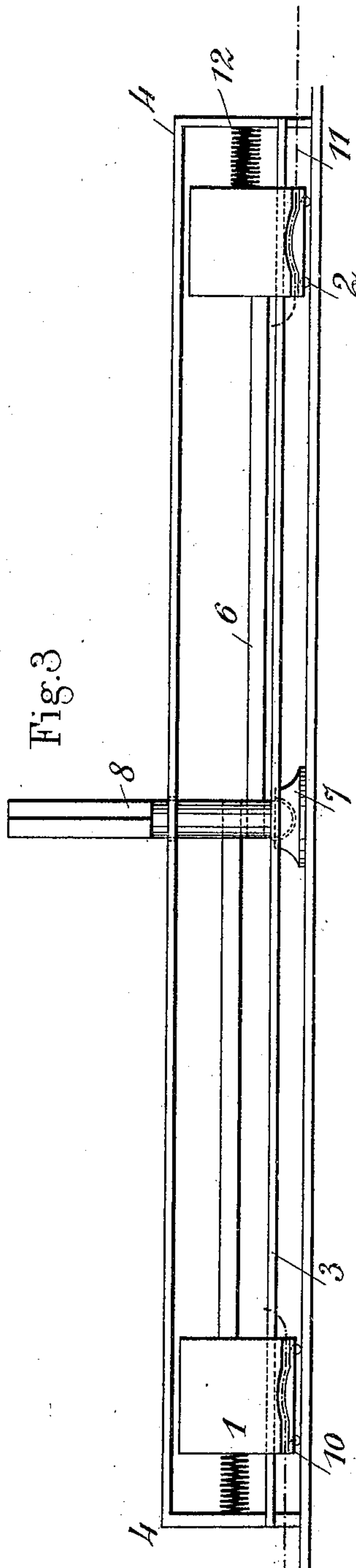


Fig. 3



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UNITED STATES PATENT OFFICE.

EUGÈNE BLAUVAC, OF PARIS, FRANCE.

DEVICE FOR STRETCHING IRON BANDS OF PACKING-CASES.

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Specification of Letters Patent.

Patented April 6, 1909.

Application filed July 20, 1908. Serial No. 444,524.

To all whom it may concern:

Be it known that I, EUGÈNE BLAUVAC, citizen of the French Republic, residing at Paris, in the Department of the Seine, France, have invented certain new and useful Improvements in Devices for Stretching the Iron Bands of Packing-Cases, of which the following is a specification.

This invention refers to an improved apparatus for stretching the iron bands, wires or the like generally employed for closing packing cases.

This invention depends on mechanically drawing together in any suitable manner two carriages running on rollers or the like. These carriages are guided by one or more guides or slides and may, if desired, run on rails; each of these carriages is fitted with a suitable device for catching hold of an end of the iron band, wire or means employed for closing the case. The carriages can be mechanically drawn toward each other by any suitable means and as examples the accompanying drawings show two modifications of an arrangement, but it must be clearly understood that these arrangements permitting of effecting the desired result may be varied in many ways without in any way changing the fundamental principle of the invention which essentially consists in the application of rollers for the stretching carriages.

Figure 1 of the drawing annexed to the present description shows a side view of a stretching device with oppositely threaded screw. Fig. 2 is a plan view of the same. Fig. 3 shows a side view of a modification with springs.

Referring to the accompanying drawings, 1 indicates the carriages, 2 the rollers, 3 the guides for the carriages, 4 the frame, 5 the oppositely threaded screw, 6 the spring in the modification, 7 the socket maintaining the pin 8 on which the spring 6 is wound, which pin is controlled by a lever, fly wheel or other suitable means, 9 the square or rectangular shaped part for operating the screw 5, 10 the arrangement for catching hold of the ends of the band irons 11.

As already referred to above, the example

shown in Figs. 1 and 2 shows an oppositely threaded screw which can be rotated by means of a nut arranged between the two screw threads, or in any other suitable manner by means of a fly wheel, lever or suitable gear.

Fig. 3 shows a modification in which the carriages are drawn toward each other by means of springs or metal blades, but cables, chains, cords or the like may be substituted for the same. These springs, blades or the like are attached by one of their ends to the carriages and by the other end to the pivot and wind on to the pivot or pin 8 like on to a winch, as in the known stretching devices. The carriages may also be provided with springs 12 or the like for drawing them back into their initial position after having been operated.

The two ends of the band iron being brought into contact with each other, one above the other, are joined together by means of rivets or other suitable means; it will be easily understood that a stretching device thus constructed, when placed on a case permits of uniformly tightening up the iron band, is more easily operated and gives a better result than the known apparatus, owing to the presence of any suitable number of rollers under the carriages provided with the devices for seizing the band.

Claim—

An apparatus for stretching or tightening iron bands comprising a pair of blocks each having a pair of rollers extending transversely across its bottom face near the edge or corner thereof, means on each block to receive the end of the band to be tightened, a comparatively light flexible frame for guiding said blocks in a movement toward and from one another, and means for positively impelling said blocks toward one another when desired.

In testimony whereof I affix signature in presence of two witnesses.

EUGÈNE BLAUVAC.

Witnesses:

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