Nov. 8, 1932. G. LUNDEN 1,886,564

LUMBER STAMPING DEVICE

Filed March 28, 1931

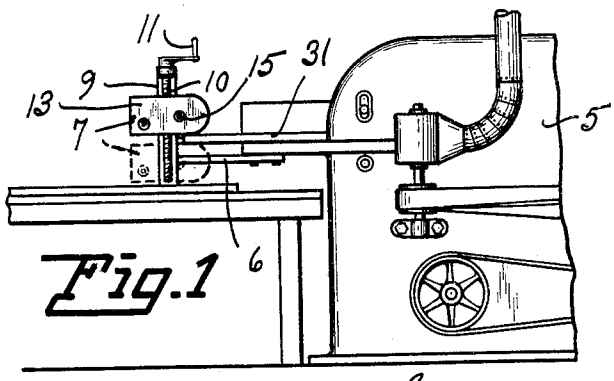


Fig. 1

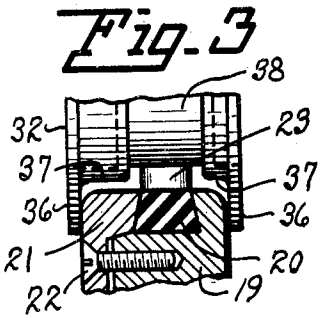


Fig. 3

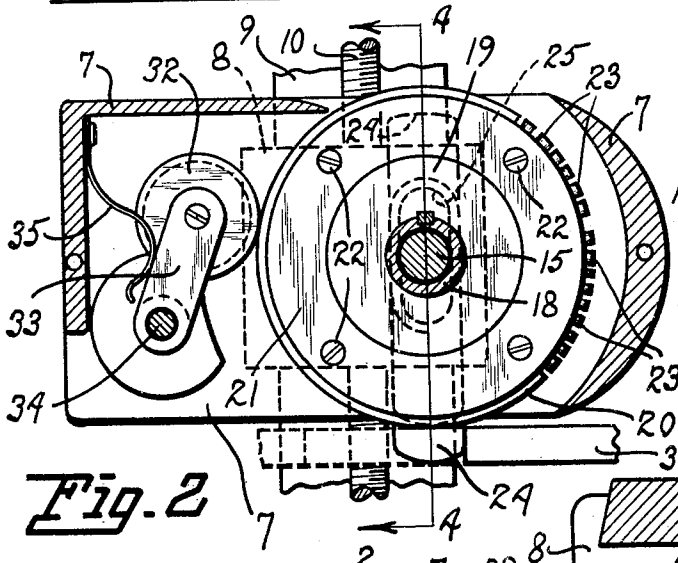


Fig. 2

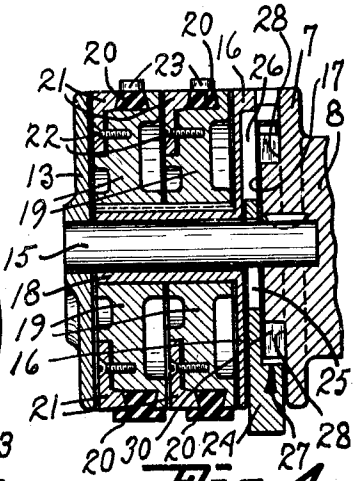


Fig. 4

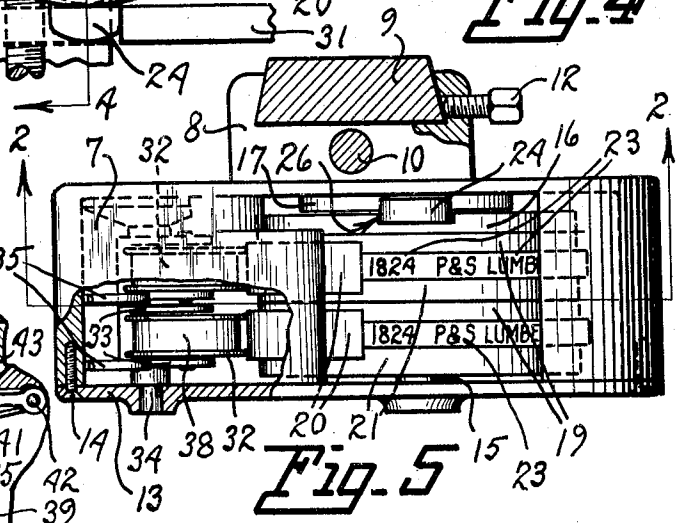


Fig. 5

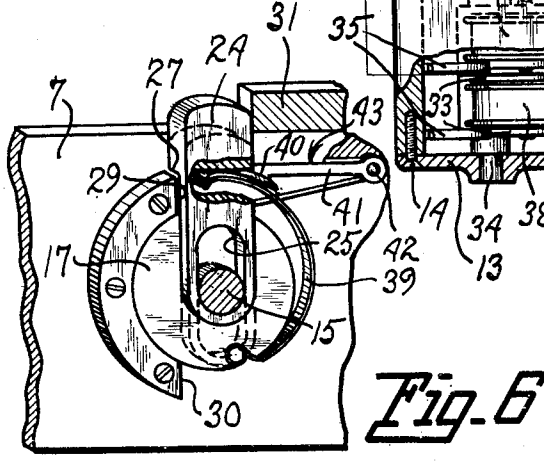


Fig. 6

INVENTOR.

Gus Lunden

BY

Glenn L. Fish

ATTORNEY.

Patented Nov. 8, 1932

1,886,564

UNITED STATES PATENT OFFICE

GUS LUNDEN, OF COLVILLE, WASHINGTON

LUMBER STAMPING DEVICE

Application filed March 28, 1931. Serial No. 525,999.

My invention relates to lumber stamping devices and certain objects of the invention are to provide a stamping device that is adapted to be attached to a molding machine and automatically actuated by the molding or other strip of lumber as it moves outwardly from the said machine. Further objects of the invention are to provide means whereby a plurality of moldings may be stamped at one time, means whereby the device may be adjustably raised and lowered, positive means for supplying ink to the device and for retaining the inking element free of contact therewith when not in engagement with the stamping type, and means whereby the device is adapted for stamping lumber passing in engagement over its top as well as under its bottom.

A practical embodiment of the invention is illustrated in the accompanying drawing forming a part of the specification in which like characters of reference indicate corresponding parts in all the views, the said invention being more fully described hereinafter and then pointed out in the appended claims. In the drawing:—

Figure 1 is a general view in side elevation showing the device connected to a molding machine;

Fig. 2 is an enlarged view of the device in longitudinal vertical section taken substantially on a broken line 2, 2 of Fig. 5;

Fig. 3 is a fragmentary detail view partly in section and partly in elevation and showing the engaging relation of a stamping roller and an inking spool;

Fig. 4 is a view in transverse vertical section of the device taken on a broken line 4, 4 of Fig. 2;

Fig. 5 is a bottom plan view of the device with certain parts broken away; and

Fig. 6 is a detail view in perspective showing the arrangement whereby moldings may be stamped while passing over the top of the device.

Referring to the drawings throughout which like numbers indicate like parts, the numeral 5 designates a molding machine having a bracket arm 6 fixed thereto and whose outer end supports the casing 7 of my device. The supporting means comprises a rear projection 8 for the casing that is slidably mounted on a beveled upright member 9 fixed to the bracket arm, and an upright worm shaft 10 passes through the rear projection. Said worm is provided at its upper end with a handle 11 whereby same may be turned to raise or lower the casing as desired, and a set screw 12, passing through said rear projection and engaging the beveled upright member, provides means whereby the casing may be secured in any desired position. The front member 13 of the casing is detachable and may be secured thereto by screws 14 as shown in Fig. 5.

A shaft 15 is fixedly supported by the casing 7 together with its front member 13 and a disc member 16 is disposed within the casing adjacent to and concentric with an annular inward projection 17 of the rear wall of the casing. Said disc member is integrally provided with a forwardly extending sleeve bearing portion 18 which rides freely and snugly on said shaft. A pair of inking rollers 19 are keyed to said sleeve and each is provided with a rubber rim or banding 20. Said rubber rims are locked into dovetail grooves around the periphery of said rollers by means of annular rings 21 that may be secured to said rollers and flush therewith by screws 22. The periphery of the rollers or rather of the rubber rims project to a slight extent through openings in both the top and bottom of the casing and said rims are provided with relief numerals, letters or other type, as at 23. Snugly and slidably interposed between the annular projection 17 of the rear casing wall and the disc member 16 is a locking dog 24. Said dog is provided with a slot 25 through which the shaft 15 extends, and is slidably mounted in a groove 26 in the rear face of the said disc member. The outer or head end of said dog is relatively thick and is provided with a shoulder 27.

The shoulder 27 of the slidable locking dog 24 projects over, or overlaps the annular projection 17 of the rear casing wall. Said projection is provided with a groove 28 extending half way around its circumference and

adapted to receive said shoulder when the dog is moved to its inward position, and the ends of said semi-annular groove respectively provide upper and lower stops or abutments 29 and 30 for engagement by the locking dog. In the normal position said locking dog drops down to the full line position shown in Figs. 2 and 4 with its shoulder free of engagement with said stops and with its head portion projecting or depending exteriorly of the casing 7 in readiness to be engaged by a piece of molding or other strip of lumber as will be understood.

Referring again to Fig. 2, the outer end of a molding or other piece of lumber, as shown at 31, upon emerging from the molding machine 5 will strike the projecting end of the locking dog 24 and will also frictionally engage one of the rubber rims 20. It may here be stated that while I have shown two rollers 19 and rubber rims therefor whereby two pieces of molding may be stamped at one time, it will be understood that one or more of said rollers may be used as desired, and the description will now be confined to only one roller. As said piece of molding continues its outward movement its frictional engagement with said rubber rim will revolve the roller in a clockwise direction carrying the disc member 16, keyed to its sleeve 18, around with it, and likewise the locking dog.

In its initial rotary movement, the locking dog 24 being in the outward position, its shoulder 27 will pass over or by the lower stop 30 and will ride on the periphery of the annular casing projection 17. Upon reaching a vertical position said dog will drop down over the upper stop 29 into the semi-annular groove 28 and will continue its rotary movement without obstruction until it again reaches the lower stop, or in other words until the roller 19 has completed one revolution. In completing this revolution the numbers or letters 23 on the rubber rim 20 will, of course, impress themselves upon the molding 31 that is in frictional engagement therewith. Shortly before reaching said lower stop the outer end of the dog will contact with the molding and the dog will thus be moved inwardly whereby it will abut against said lower stop, thus locking the entire mechanism and keeping it locked until this particular piece of molding has passed clear of the device at which time the dog will again drop down to its normal outward position in readiness for stamping the next piece of molding.

The means for inking the raised type 23 on the rubber rim 20 comprises an inking spool 32 supported by arms 33 that are pivoted to the casing 7 at 34 and held in engagement with the type by a spring 35. Referring to Fig. 3, when but one roller 19 is used I prefer to provide flanges 36 for the inking spool which engage over the sides of the roller and serve as guides for retaining said spool in engagement therewith at all times. The type is slightly raised and the inking spool is provided with shoulders 37. When said type is in engagement with the inking pad 38 on the spool said shoulders will be raised away from the roller and when the raised type has passed by the shoulders will seat on the roller thus retaining the inking pad clear of the roller and its rubber rim and prevent the ink from contacting with the roller and smearing the strip of lumber that is passing through.

The foregoing description deals with the method of stamping moldings or other strips of lumber while same is passing under the device. Referring to Fig. 6 of the drawing, I have shown means whereby the device is adapted to stamp lumber while passing over and in engagement with its top. Said means comprises a spring 39 having one end connected to the casing 7 and having its other end arranged to support a flange member 40 that is arranged to engage under the shoulder 27 of the locking dog 24. Said flange member is provided with an arm 41 that is pivoted to the casing at 42 and bears upwardly against a shoulder 43 of said casing whereby its upward movement is limited and whereby the flange member, actuated by the spring, will lift the locking dog the correct distance so that its shoulder 27 will clear the upper stop 29.

The construction and operation of this arrangement for stamping lumber passing over its top is otherwise the same as the hereinbefore described means for stamping lumber passing under its bottom. As shown in Fig. 6, when the end of the lumber strip 31 first strikes the locking dog 24 its shoulder 27 will clear the upper stop 29 and said dog will carry the inking roller 19 around one complete revolution whereby the stamping operation will be performed as previously described. As before, the dog will engage its outer end under the lumber strip on the next revolution and will thus be depressed so that it will abut against the stop 29 and will thus lock the device in inactive position until the lumber strip has passed out of engagement therewith.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States is:—

1. The combination with a lumber molding machine of a lumber stamping device comprising a casing, a worm and bracket connection between the machine and casing whereby the casing may be adjustably raised and lowered, a shaft fixedly supported transversely of the casing, a disc member revolubly mounted on the shaft, one or more printing rollers fixedly connected to the disc member, a rubber rim having raised type for the rollers that project exteriorly of the casing, means for locking said rims to said rollers, a

locking dog interposed between the rear casing wall and the disc member and slidably disposed in a groove in the rear face of said disc member, said shaft disposed through a slot in the inner end portion of the dog, a shoulder for the outer end portion of the dog, upper and lower stops for the rear casing wall arranged to clear the dog when said dog is in its outward position and to be engaged by said dog when same is in its inward position, ink supplying means for the rim type, the outer end of said dog arranged to be engaged by the end of a strip of lumber passing outwardly from the machine, and the rubber rim arranged to be frictionally engaged by said lumber strip during its passage outwardly from the machine.

2. A lumber stamping device having in combination a casing, a shaft fixed transversely of the casing, a disc member revolubly supported on the shaft, a printing roller connected to the disc, a rubber rim for the roller having raised type, a locking dog interposed between the rear casing wall and the disc member and slidably disposed in a groove of said disc, said shaft disposed through a slot in the dog, and upper and lower stops for the rear casing wall arranged to clear the dog when said dog is in its outward position and to be engaged by said dog when same is in its inward position.

3. A lumber stamping device having in combination a casing with upper and lower openings, a shaft fixed transversely of the casing, a printing roller revolubly mounted on the shaft and having peripheral raised type, a locking dog slidably connected to said roller, said dog adapted to project through said openings when in the outward position, and upper and lower stops for the casing arranged to clear the dog when said dog is in the outward position and to be engaged by said dog when same is in its inward position.

4. A lumber stamping device having in combination a casing with upper and lower openings, a shaft for the casing, a printing roller revolubly mounted on the shaft and having peripheral raised type arranged to project slightly through the openings in the casing, a locking dog slidably connected to said roller, said dog adapted to project through said casing openings when in the outward position, said casing adapted to be mounted on a planing machine with its locking dog disposed in the path of lumber emerging therefrom and with the printing roller arranged to be frictionally engaged and rotated by said outwardly moving lumber, and stop means for the dog whereby the printing roller is locked in position upon completing one revolution.

5. A lumber stamping device having in combination a casing, a rotary stamping element mounted within the casing with a portion of its periphery disposed exteriorly thereof, a locking dog for said element normally projecting exteriorly of the casing, and stop means for the dog whereby the rotary stamping element is locked in stationary position when said element has been caused to complete one revolution.

In testimony whereof I affix my signature.

GUS LUNDEN.