Jan. 4, 1927. 1,613,463

L. M. KRAUSSE

STAMPING MACHINE

Filed May 26, 1925 2 Sheets-Sheet 1

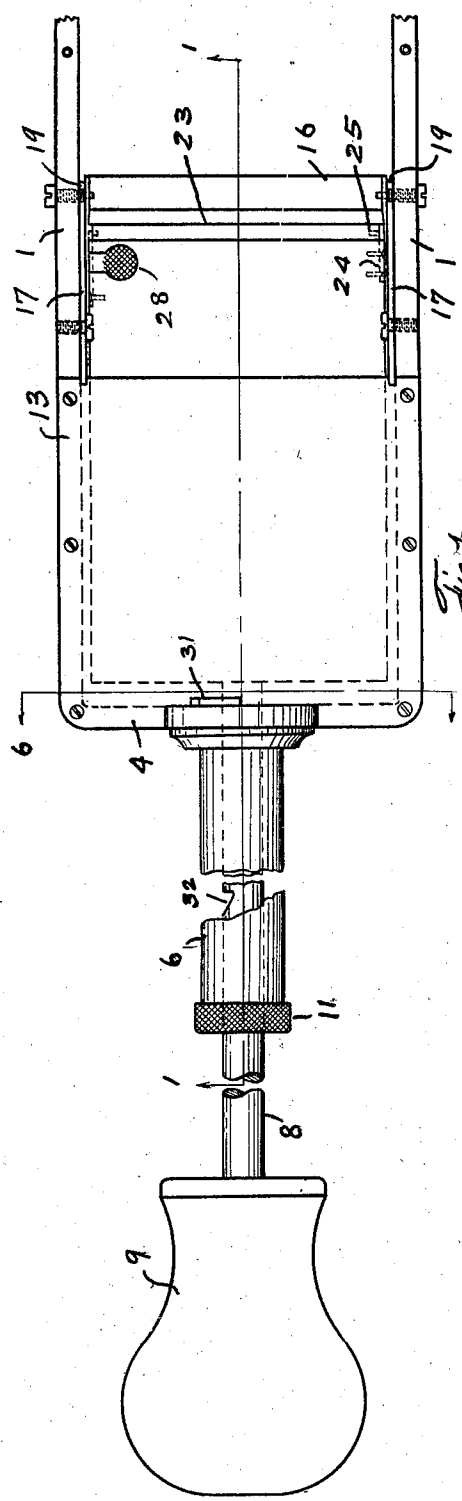


Fig. 1.

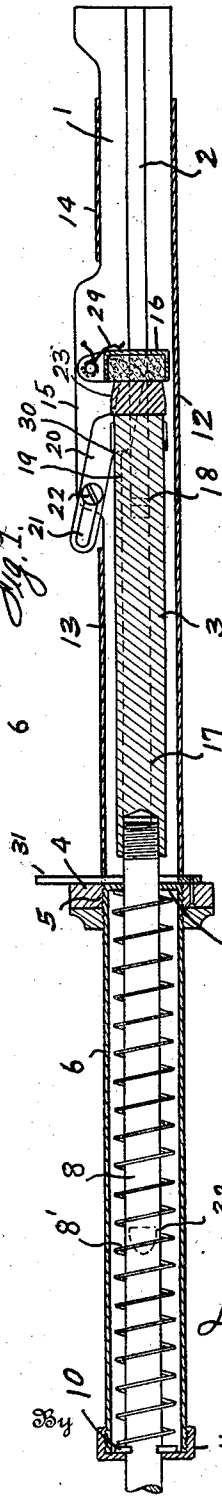


Fig. 2.

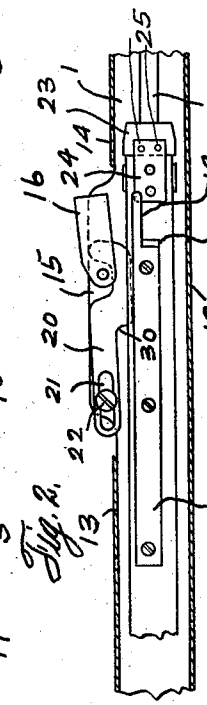


Fig. 3.

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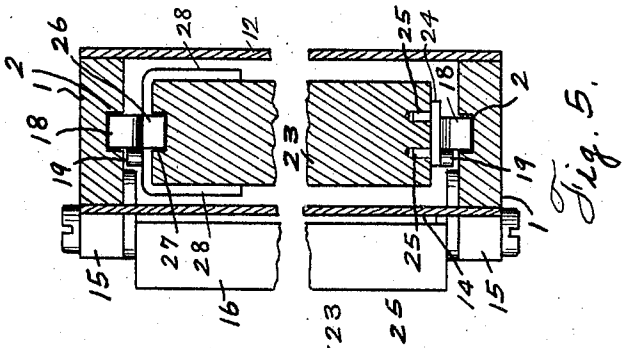


Fig. 5.

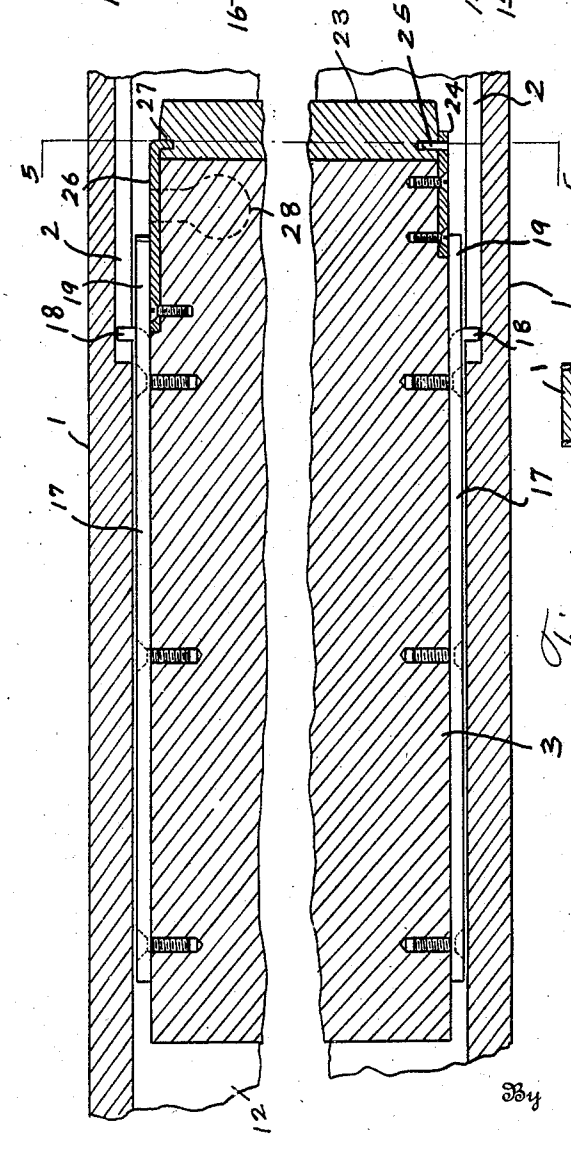


Fig. 4.

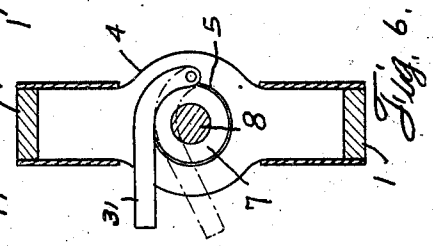


Fig. 6.

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UNITED STATES PATENT OFFICE.

LOUIS M. KRAUSSE, OF HOUSTON, TEXAS.

STAMPING MACHINE.

Application filed May 26, 1925. Serial No. 33,022.

This invention relates to new and useful improvements in a stamping machine.

One object of the invention is to produce a machine specially designed for marking articles of any character, and more particularly for marking each individual piece of lumber to indicate the grade to which it belongs.

Another object of the invention is to produce a stamping machine equipped with an ink pad arranged to automatically ink the die or type, after each application of the die to the object stamped.

A further object of the invention is to produce a machine of the character described having an improved die bed, and die whereby the die may be readily removed and replaced.

With the above and other objects in view this invention has particular relation to certain novel features of construction and arrangement of parts an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 shows a fragmentary side elevation of the complete device, Figure 2 shows a sectional view thereof, taken on the line 1—1 of Figure 1.

Figure 3 shows a fragmentary longitudinal view of the frame.

Figure 4 shows a fragmentary longitudinal sectional view taken transversely through the machine.

Figure 5 shows a transverse sectional view, taken on the line 5—5 of Figure 4, and

Figure 6 shows a transverse sectional view, taken on line 6—6 of Figure 1.

Referring now more particularly to the drawings wherein like numerals of reference designate similar parts in each of the figures, the numerals 1, 1, designate the side members of the frame, which are spaced apart and formed with inside grooves 2, 2 forming tracks for the type or die bed 3. At one end these side members are connected together by the yoke 4, which has a central taped hole 5 into which one end of the tubular housing 6, forming a handle, is threaded. The adjacent end of this housing has an inside annular flange 7, forming a bearing through which the operating rod 8 works. The inner end of this rod is attached to the bed 5 and its outer end has the handgrip 9 secured thereto. A coil spring 8′ surrounds the rod 8 and has one end seated on the flange 7 and its other end resting against a collar 10 which is carried by the rod 8 and which is adapted to abut the cap 11, screwed onto said housing and which also forms a bearing for the rod 8.

The frame has a back plate, 12, secured thereto, as well as the front spaced plates 13 and 14. The side members are extended or widened, between the plates 13 and 14, forming the ears 15, 15, between which the ink pad is pivoted, at one side.

Fastened to opposite edges of the bed 3 are metallic straps 17, 17, whose lower ends have the outturned lugs 18, 18, which move in the grooves 2, 2, and also have the trip fingers 19, 19. There are trip arms 20, 20, whose upper ends have the lengthwise slots 21, 21, provided to receive set screws 22, 22 on which the said trip arms slide. The lower ends of these arms are forwardly curved and engage against the corresponding ends of the ink pad 16.

There is a die, or type, 23 attached to the lower end of the bed 3. This die is held in place at one end by means of a strap 24 attached to the adjacent side of the bed and whose free end has the studs 25 which fit into corresponding sockets in the adjacent end of said die. Its other end is held in place by means of a flexible strap 26, fastened, at one end to the adjacent edge of the bed 3, and whose free end is overturned, and thus adapted to engage in a notch in the adjacent end of the die block.

The strap 26 has the knurled grips 28, 28, one on each side, which may be grasped and the overturned end of the strap 26 thus released from its notch, and the die 23, then removed, when desired.

The ink pad 16 is normally held in contact against the face of the die or type by means of a suitable pressure spring 29.

When it is desired to mark, or grade, a piece of lumber, the stamping machine is applied thereto by standing the same thereon, the side members 1 forming the supporting legs. The rod 8 is then suddenly forced downwardly by striking the grip or head, 9. This will carry the bed 3 downwardly causing the fingers 19 to ride off of the inside shoulders 30, 30, of the arms 20, whereon they usually rest, thus forcing said arms outwardly, and causing the ink pad to clear the path of the die and said die moves on down and strikes the article to be stamped or graded and leaves its imprint thereon. Thereupon the pressure of the springs 8′

and 29 cause the parts to assume their original positions, with the ink pad resting against the face of the die to re-ink the same.

When it is desired to remove the die 23 the grip 9 is forced fully down and the pivoted latch 31 is engaged in the notch 32 of the rod 8, and when locked in this position the die will be rendered accessible for removal or replacement.

What I claim is:—

1. A stamping machine including a frame having side members forming tracks, a die-bed movable between said tracks, a tubular handle carried by the frame, an operating rod working through said handle, one end of which is connected to said die-bed, a yieldable member, one end of which works against said frame and an abutment carried by the rod against which the other end of said yieldable member works, an ink pad disposed between said members and mounted to pivot on a transverse eccentric axis, a strap secured to each edge of said bed, said straps engaging with said tracks and having their free ends formed with trip fingers, trip arms formed with shoulders against which said fingers work and also having oblong bearings, bearing members secured to the respective sides of the frame on which said bearings work, the free ends of said trip arms being forwardly curved against the respective ends of said ink pad, a die carried by said bed and a pressure spring normally holding said ink pad in contact against the face of said die.

2. A stamping machine including a frame having side members forming tracks, and also having a bearing, a die-bed movable between said tracks, a die carried by said bed, an operating rod attached to said bed and working through said bearing, an ink pad disposed between said side members and mounted to pivot on an axis disposed on one side of the track on which said die bed moves, trip arms pivoted to and having a slidable connection with said respective side members and having free ends adapted to engage the respective ends of the ink pad, a strap secured to each side of said bed and formed with means to engage the corresponding track, and also being formed with a trip finger adapted to engage the corresponding trip arm to actuate said ink pad out of the line of travel of said die bed and a pressure spring normally holding said ink pad in contact against the face of said die.

3. A stamping machine including a frame having side members forming tracks, a die bed movable between said tracks, a die carried by said bed, a yieldably mounted operating rod attached to said bed, an ink pad mounted to pivot on an axis disposed on one side of the track on which the die bed moves, means pivoted to the frame and having a free end adapted to actuate the ink pad, means carried by the bed and adapted to operate against said pad-actuating means to move said pad out of the line of travel of said bed and a yieldable member normally holding said ink pad in contact against the face of said die.

4. A stamping machine including a frame having side members forming tracks, a die bed movable between said tracks, a die carried by said bed, a yieldably mounted operating rod attached to said bed, an ink pad pivoted to rotate upon an axis to one side of the line of travel of said bed, a trip arm pivoted to and having a slidable connection with the frame and having a free end adapted to engage with and actuate said ink pad, a strap secured to the bed and formed with means to engage with the corresponding track and also being formed with a trip finger adapted to engage said arm to actuate an ink pad out of the line of travel with said bed, a yieldable member normally holding said body in contact against the face of said die, and means adapted to engage said rod to lock said bed against movement.

In testimony whereof I have signed my name to this specification.

LOUIS M. KRAUSSE.