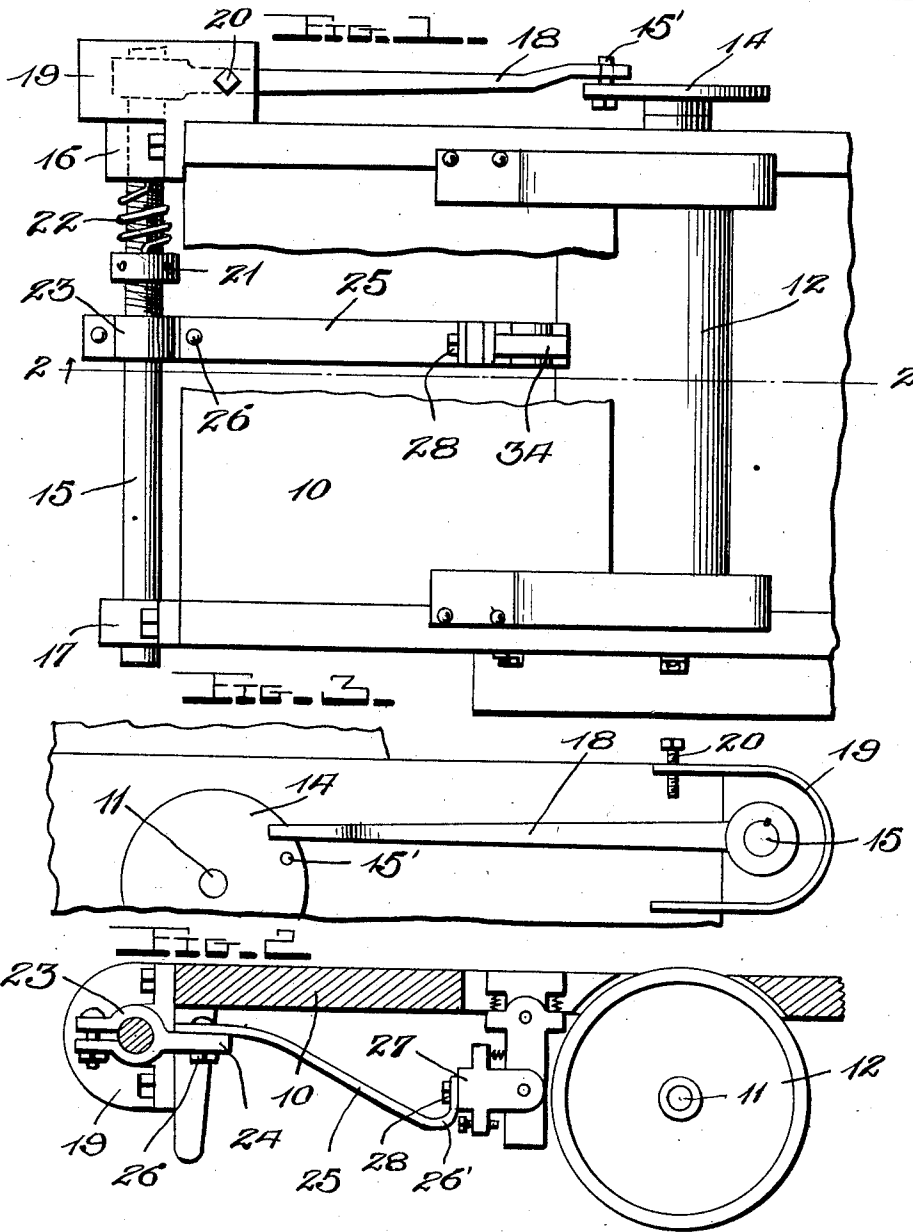


C. H. HEIDER.
 PRINTING ATTACHMENT FOR PLANING MACHINES.
 APPLICATION FILED MAY 25, 1912.

1,056,024.

Patented Mar. 18, 1913.

2 SHEETS—SHEET 1.



Witnesses

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 A. B. Norton.

Inventor

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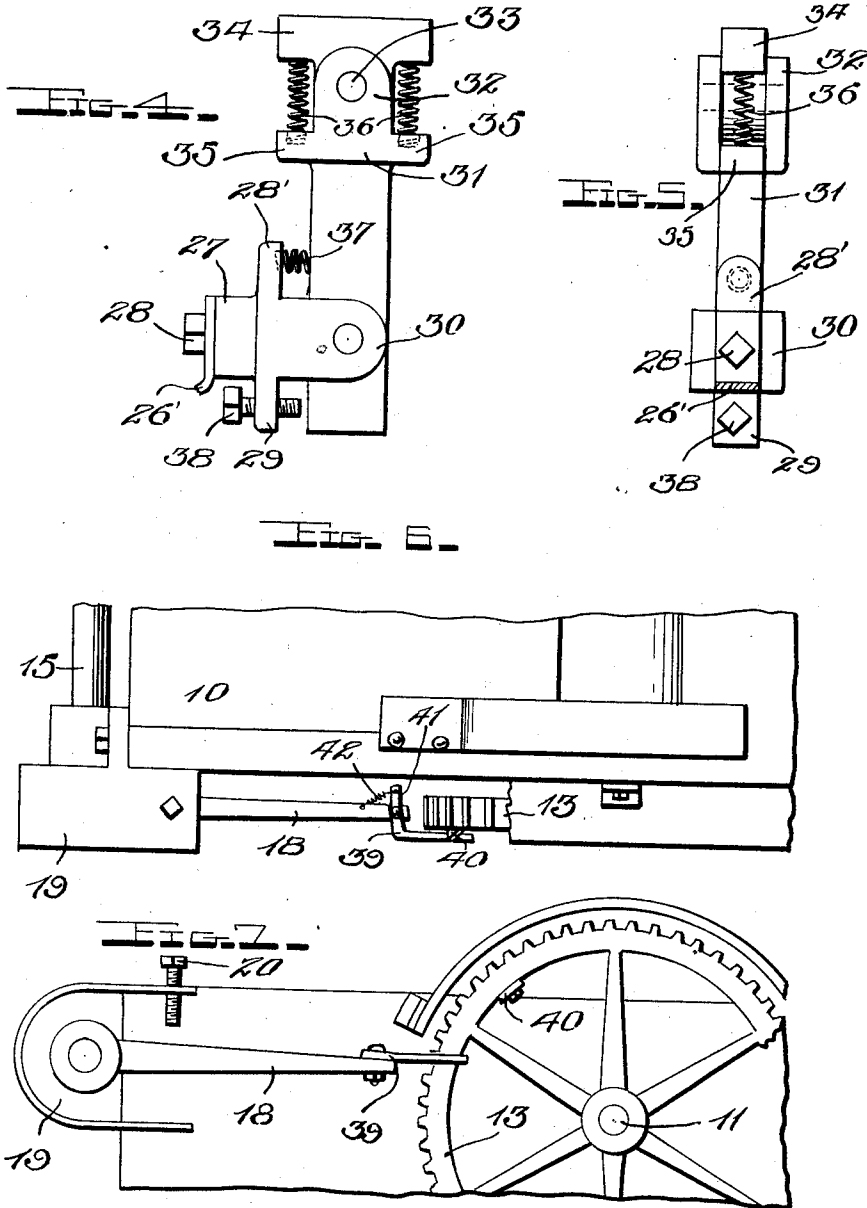
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CHARLEY H. HEIDER, OF WYATT, LOUISIANA.

PRINTING ATTACHMENT FOR PLANING-MACHINES.

1,056,024.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed May 25, 1912. Serial No. 699,702.

To all whom it may concern:

Be it known that I, CHARLEY H. HEIDER, a citizen of the United States, residing at Wyatt, in the parish of Jackson and State of Louisiana, have invented certain new and useful Improvements in Printing Attachments for Planing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to a new and useful improvement in printing attachments for a planer machine which will stamp the name and address and also the grade upon each piece of the lumber while being passed through the planer, so that the lumber may be identified should it become lost in the shipment of the same and also act as advertising matter for the lumber concern whose name is printed thereupon.

20 The primary object of the present invention is to construct an automatic printing attachment which will be positive in operation and the die thereof will not be carried by the moving timber thereby preventing the name which is printed upon the timber from being blurred.

A further object of the present invention is to construct a device of this character which can be easily and readily adjusted so that the die plate may engage the curved or straight surface of the lumber.

Other objects will appear hereinafter as the description continues.

35 With the above and other objects in view this invention consists of the novel details of construction, combination, formation, and arrangement of parts as will hereinafter be more fully described, claimed and particularly pointed out in the appended drawings, in which—

40 Figure 1 is a plan view of my printing attachment as applied to the rear end of a planing machine; Fig. 2 is a section taken through the same on the line 2—2 of Fig. 1; Fig. 3 is a side elevation of the same; Fig. 4 is a detail side elevation of the stamping die as applied to the striking hammer; Fig. 5 is a front elevation of the same; Fig. 6 is a plan view similar to Fig. 1 embodying a modified form of my invention; and Fig. 7 is a side elevation of the same.

50 Reference now being had to the accompanying drawings wherein I have illustrated like parts by like numerals throughout the several views, the numeral 10 indicates the rear

end portion of an ordinary planing machine having journaled therein a shaft 11 on which is mounted the lower roller of the planer 12 and having permanently secured to one extremity thereof a gear wheel 13 through which power is transmitted to the shaft 11. The opposite end of the shaft 11 is provided with a disk 14 having adjustably mounted therein a pin 15' which is adapted to automatically operate the printing attachment which will be hereinafter described, at certain predetermined intervals. A transversely extending shaft 15 is journaled within bearings 16 and 17 formed on the rear end of the frame of the planer having permanently secured at one end thereof a lever 18 extending parallel with the frame having its inner end terminating within alinement with the lug 15' whereby the same may be operated. The bearing 16 has cast integral therewith an extension 19 in which is adjustably mounted a set screw 20 upon which the lever 18 rests for a purpose which will be hereinafter more fully described. A collar 21 is adjustably mounted upon the shaft 15 and is connected to the bearing 16 by means of a coil spring 22. This collar 21 may be adjusted by a spanner wrench or the like thereby increasing the tension of the spring 22 which will obviously give more striking power to the hammer provided with the die plate. A clamp 23 is adjustably secured to the shaft 15 and has extending therefrom a lug 24 to which is secured a leaf spring 25 by means of a bolt 26, this leaf spring having secured at its inner end the striking hammer in which the die plate is mounted and which operates within the opening formed in the frame of the planer in which the lower roller operates.

The inner end of the spring 25 is bent at right angles thereto as at 26' and has adjustably secured thereto an extension 27 by means of a stud bolt 28. This extension 27 is provided with a pair of oppositely extending lugs 28' and 29 respectively and a forked extension 30 in which the die holding hammer 31 is pivotally mounted. This die holding hammer consists of an arm 32 bifurcated at its upper extremity having pivotally connected thereto as at 33 a die plate 34. This arm 32 of the hammer is provided with a pair of oppositely extending lugs 35 which have each mounted there-

on coil springs 36 adapted to engage the under face of the die plate 34 for a purpose which will be hereinafter described. A coil spring 37 is mounted between the extension 28 and the arm 32 of the hammer so that the same may be held in a substantially vertical position when in use but at the same time may give as the die plate engages the boards passed through the planer. The lower extending lug 29 of the extension is provided with an adjustable set screw 38 which forms a stop for limiting the movement of the hammer and which may also be adjusted so as to hold the same at any angle desired. It is obvious from this construction that as the die plate engages the plank from the planing machine which is continuously moving the hammer will be allowed to give with the plank but as the same is released from engagement with the plank the coil spring 37 will normally hold the hammer in its normal position. It is further apparent that the extension 27 may be also adjusted to any angle so that the die plate may engage flat as well as inclined surfaces of plank or lumber coming from the planing machine and that the coil springs 36 will allow the die plate to give when the same comes in engagement with the lumber so that the letters of the die plate will engage the lumber and form a clear indentation thereupon. It will be seen as the disk 14 is rotated the pin mounted thereon will engage the lever 18 thereby oscillating the shaft 15 and which will also increase the tension of the coil spring 22 mounted thereupon. As the disk 14 continues to rotate the pin mounted thereon will release the lever 18, the coil spring will then cause the die hammer to rise so that the die plate will come in contact with the lumber as it is being passed through the machine.

In Figs. 6 and 7 of the drawings I have shown a slightly modified form of my invention which consists of a different arrangement of parts used for operating the die plate hammer when the planing machines of this character are not provided with a disk 14 upon the roller shaft of the machine. In this modified form I have substituted the bearing 17 for the bearing 16 as illustrated in my preferred form and connected the operating lever 18 with the die plate hammer as before described. The outer extremity of the operating lever 18 I have hingedly secured to an L-shaped extension 39 which is adapted to engage a lug 40 mounted upon the gear wheel 13. This lug 40 is beveled upon its upper face as shown so that when the machine is operated in the reverse direction the lug will engage the extension 39 and force the same out of its path but when the gear wheel 13 is rotated in its forward direction the lower face of the lug will engage the extension 39 and

operate the lever as before described. To normally hold the L-shaped lever 39 in a line with the lug 40 I provide on the inner end thereof an extension 41 which is connected to the lever arm 18 by means of a light coil spring 42. This will readily permit the lug 41 to remove the L-shaped lever from its path when operating in a reverse direction and when the gear wheel is traveling in a forward direction the spring will hold the same within its path and thereby permit the arm to oscillate.

It will be further seen from the foregoing description taken in connection with the accompanying drawings that the clamp 23 mounted upon the shaft 15 may be adjusted at any position thereupon which will permit the die plate to engage any desired position along the under side of the timber and that when the lever 18 is operated the adjustable screw 20 will act as a stop which adjustment may also limit the movement of this lever as desired. Any desired lettering may be used in the die plate but the same should be made of steel sharp and deep so that a good impression can be made upon the timber as it is being passed through the machine.

It is obvious from the foregoing description taken in connection with the accompanying drawings that various other uses and advantages of this device will be readily apparent to those skilled in the art and it is to be further understood that other minor details of construction may be resorted to that come within the scope of the appended claims without departing from the spirit thereof.

What I claim is:—

1. In a planing machine the combination of a printing attachment mounted thereon, comprising a shaft, a flexible arm permanently secured to said shaft, a hammer, pivotally secured to the free end of said arm, a die plate holder permanently secured in said hammer, and flexible means for holding said hammer and die plate holder in a normal position substantially as described.

2. The combination with a planing machine, of a printing attachment secured thereto, an arm extending from said printing attachment, an extension pivotally secured to said arm, a hammer pivotally secured to said extension, a die plate holder pivotally secured to said hammer and means for retaining said hammer and die plate holder in their normal position.

3. The combination with a planing machine, of a printing attachment mounted thereon, a flexible arm extending from said printing attachment, an extension detachably secured to the free end of said arm, a vertically extending hammer pivotally mounted within said extension, a coil spring connecting said hammer with said extension

and a die plate holder pivotally mounted upon the upper end of said hammer substantially as described.

4. In a printing attachment, the combination of a shaft, of a leaf spring permanently secured thereto, the free end of said leaf spring being bent at right angles thereto, an extension detachably secured to the angular portion of the spring, the upper end of said extension being bifurcated, a vertically extending hammer mounted within said bifurcated portions of said extension, oppositely disposed lugs formed on said extension, a coil spring connecting one of said lugs with said hammer, a set screw mounted within the other of said lugs and a die plate holder mounted upon said hammer substantially as described.

5. In a printing attachment, the combination of a shaft, of a leaf spring permanently secured thereto, an extension mounted on the free end of said leaf spring, a hammer pivotally secured to said extension, the upper end of said hammer being bifurcated, a die plate pivotally mounted within said bifurcated portion of said hammer, oppositely disposed lugs formed on said hammer and coil springs mounted on said lugs and engaging the under face of said die plate holder substantially as described.

6. In a planing machine having a rotary member mounted therein, a printing attachment comprising a shaft mounted on said machine, an arm permanently secured to said shaft, an extension hingedly secured to the free end of said arm, a lug mounted on the rotary member for engaging said extension when operating in one direction and the upper end of said lug being beveled substantially as and for the purpose described.

7. In a planing machine having a rotary member, the combination of a printing attachment mounted thereon, comprising journal boxes secured to the said planing machine, a shaft journaled within said boxes, a die plate hammer carried by said shaft, an arm carried by said shaft, means carried by

said rotary member for operating said arm in one direction, means for automatically operating said arm in an opposite direction when the first mentioned means have been released, and means carried by one of said bearing boxes for limiting the upward stroke of said arm, substantially as described.

8. In a planing machine having a rotary member for feeding boards, the combination of a printing attachment carried by said machine, comprising journal boxes mounted within said machine, a rotatable shaft journaled within said boxes, a die plate hammer carried by said shaft, an arm keyed to one extremity of said shaft, means carried by said rotary member for operating said arm in one direction, a coil spring encircling said shaft, being permanently connected at one end of said shaft, and its opposite end to one of the journal boxes, an extension carried by said last mentioned bearing boxes, and an adjustable member carried by said extension for limiting the upward movement of said arm, substantially as and for the purpose described.

9. In a planing machine having a rotary feeding member mounted therein, in combination with a printing attachment, of a shaft journaled within said planing machine, a die plate hammer carried by said shaft, an arm permanently secured to said shaft, an angular extension pivotally connected to the free end of said arm, a beveled lug carried by said rotary member and adapted to engage said extension when operating in one direction, and a coil spring connecting said arm with said extension for normally holding the same in alinement with the lug, substantially as described.

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

CHARLEY H. HEIDER.

Witnesses:

CHAS. F. GOYNE,
TOM AYCOCK.