Oct. 30, 1923. 1,472,751

O. C. GOULET

STOPPING DEVICE FOR FOLDING MACHINES

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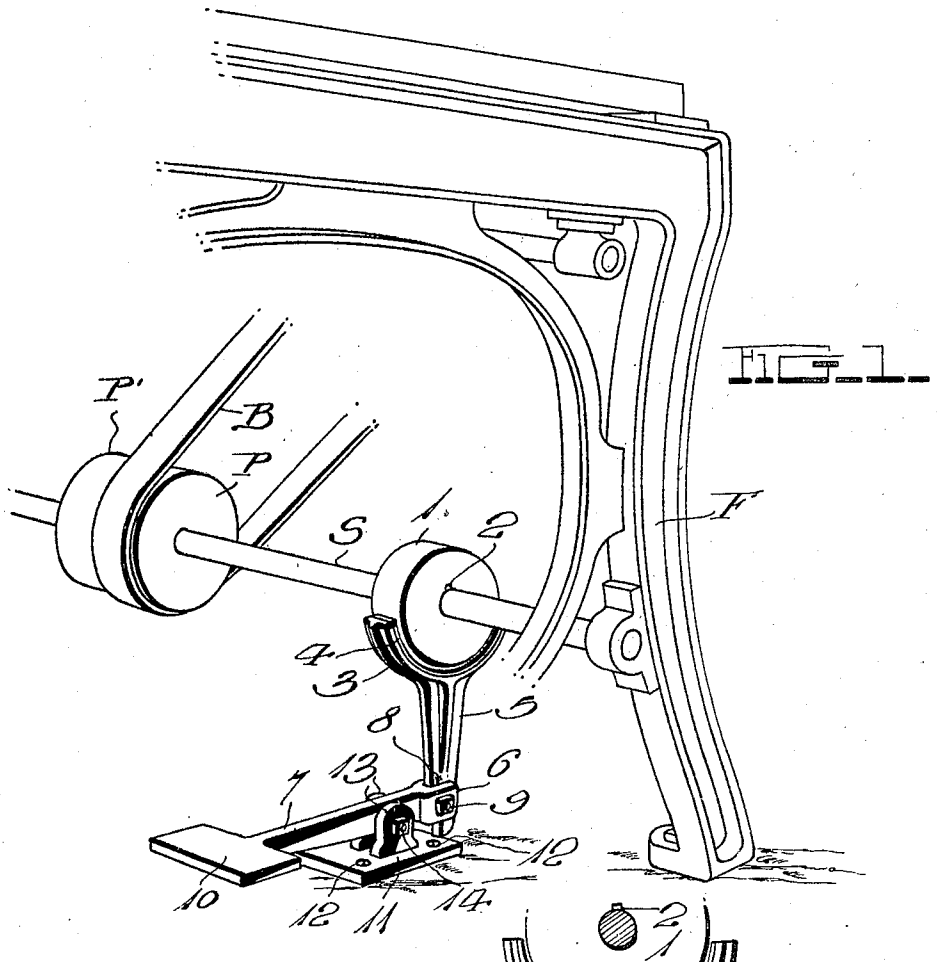

FIG. 1

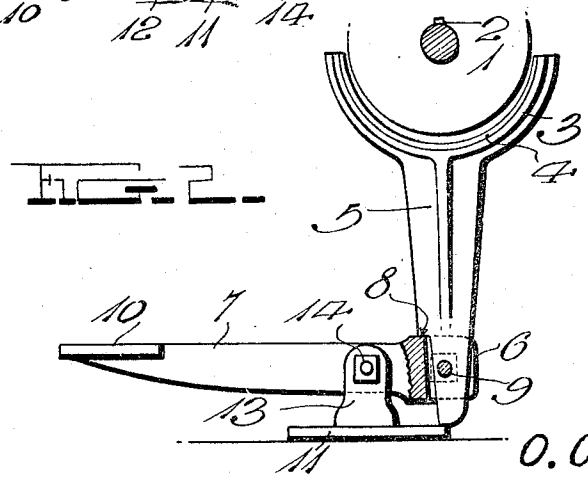

FIG. 2

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UNITED STATES PATENT OFFICE.

OMER C. GOULET, OF FALL RIVER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO A. E. PERRON, OF FALL RIVER, MASSACHUSETTS.

STOPPING DEVICE FOR FOLDING MACHINES.

Application filed August 31, 1922. Serial No. 585,473.

To all whom it may concern:

Be it known that I, OMER C. GOULET, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Stopping Devices for Folding Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved stop for use in connection with a folding machine. It often happens that when operation of a folding machine is to be stopped, the machine does not stop quick enough and the operator in trying to stop the moving bar of the machine will have his hands caught between the moving bar and the jaws of the table thereby causing the hands to be injured. With this device, rotation of the drive shaft of the machine can be quickly stopped and movement of the moving bar of course stopped at the same time. This not only does away with danger of injury to the operator but also permits the machine to be brought quickly to a stop thus saving time.

This improved stop has been shown in the accompanying drawing, wherein:

Figure 1 is a perspective view showing a fragment of the folding machine with the stop applied.

Figure 2 is a view showing the stop principally in side elevation and partially in section.

This stop has been shown applied to a folding machine which is indicated in general by the letter F and includes a drive shaft S rotated by means of the usual pulley P and drive belt B. A second pulley or brake drum 1 is mounted upon the drive shaft and will be rigidly held thereon by means of a key 2 or by any other suitable means desired, which will cause the pulley or drum 1 to rotate with the drive shaft. The brake shoe 3 which is to engage the drum 1 is provided with a lining 4 formed of leather or any other suitable material which will cause a tight frictional grip upon the drum when the shoe is brought into operative engagement with the drum. This shoe is provided with a depending standard or arm 5, the lower end of which extends between the spaced arms or forks 6 of the treadle 7. From an inspection of Fig. 2, it will be readily seen that the lower end portion of the standard 5 is reduced thus providing a shoulder 8 which overhangs the forked ends of the treadle 7 and prevents the brake shoe and standard 5 from moving in one direction beyond a desired amount. Movement of the brake shoe and standard in the opposite direction is limited through engagement of the reduced end of the standard with the end of the treadle between the arms 6. This standard is pivotally held between the arms 6 by means of a bolt 9 which constitutes a pivot pin and it will be readily seen that when the treadle is rocked upon its fulcrum by pressure of the foot upon the plate 10, the brake shoe will be forced upwardly into tight binding engagement with the drum. In order to pivotally mount the treadle, there has been provided fulcrum means including a base plate 11 which will be firmly held in place by fasteners 12 and bearing ears 13 which extend upon opposite sides of the treadle 7 and carry a pivot bolt 14 which extends through the treadle. With this device in place, the operator can move the belt B from the pulley P to the idler pulley P′ by a conventional belt shifter and can then place his foot upon the plate 10 and force the treadle downwardly. This will cause the brake shoe to be moved upwardly into tight binding engagement with the drum 1 and rotation of the drive shaft will be stopped immediately. There will therefore be no danger of the operator getting his hands caught and further the machine can be quickly stopped and time saved. From an inspection of Fig. 1, it will be readily seen that this device is so constructed that it can be applied to machines already in use.

I claim:

1. A brake of the character described comprising a treadle pivotally mounted intermediate its length and having one end provided with spaced arms and a brake shoe having a depending standard having its lower end portion pivotally mounted between the arms of said treadle and having a shoulder engaging the upper face of said treadle.

2. A brake of the character described comprising a treadle pivotally mounted intermediate its length and having one end provided with spaced arms and a brake shoe

having a depending standard having its lower end portion reduced from one side to provide a tongue portion extending between said arms and a shoulder engaging the upper face of the treadle between the drums, and a pivot fastener extending through the arms and tongue extension to mount the standard for pivotal movement with the shoulder and tongue extension engageable with the treadle to limit pivotal movement.

In testimony whereof I have hereunto affixed my signature.

OMER C. GOULET.