

**THE ACTION
OF THE
MACHINE IS
AS FOLLOWS**

After the signatures are placed in the boxes in their proper order, the suckers which are seen in cut come up under the different piles and pull one sheet down from each pile, at which instant the gripper jaws enter and grasp same.

Then the small hooks on each side of the gripper pass under the pile, but over the grasped signature, and lift the signature in the boxes to lessen the friction on the one grasped. When the gripper draws the signatures out and drops them in the conveyor upon the preceding one, the chain moves those in the conveyor under the next gripper, and the above action is repeated until the first sheet passes under each pile and completes a book.

The detecting device is operated by the thickness of the sheets in signature or by the signature itself.

Thus, if there is one or more sheets missing, or one or more sheets too many in signatures, the small hook shown on each gripper arm will catch either on the upper edge or the lower of the notched plate as the signature is thicker or thinner than it should be, and by so catching will cause the machine to stop. At the same time it causes the lever with the indicating ball on its end to raise at the box where the error is, thus giving the operator a signal where to look for the trouble, to rectify which they will place a proper signature where the imperfect one would have fallen, and after removing the defective one from the gripper, start the machine by pulling down on said ball.

By referring to the illustration on page 6 which shows the stitcher attached to and working in unison with the machine, it will be noticed that the conveyor changes the position of the sheets from horizontal to vertical and then passes them in stitcher to be stitched. The stitch consists of two or more wire staples of the well-known form.

Capacity of Machine at 60 Revolutions per Minute, 2,500 to 3,000 Books per Hour
MACHINES FULLY COVERED BY PATENTS