Hugo Peuckert, of Oederan, Germany.

Web-Cutting Mechanism.

1,040,006.


To all whom it may concern:

Be it known that I, Hugo Peuckert, a subject of the German Emperor, and residing at Oederan, Saxony, German Empire, have invented certain new and useful Improvements in Web-Cutting Mechanisms, of which the following is a specification.

My invention has reference to machines for pasting cardboard-box corners, book covers, and the like, and relates in particular to the devices employed in such machines for cutting off the paper pasting-strip or web.

In such machines the work on the so-called anvil or support is covered with gummed paper. The latter is in the form of an endless web, from which a piece is cut off automatically in the desired length.

According to my invention I attain improved action by employing a slotted presser head and a correspondingly slotted work support, and by mounting below the latter a spring-actuated rotary cutter, which is adapted to enter the slots therein.

One embodiment of my invention is illustrated in the accompanying drawings, which show only such parts of the machine as are necessary for the proper understanding of the construction and operation of the new contrivance.

Figure 1 is an elevation of the right-hand side of the machine. Fig. 2 is an elevation of the upper part of the left-hand side of the same. Fig. 3 is a front elevation of the same. Fig. 4 is a vertical section through the anvil. Fig. 5 is a detail view showing a grooved cam to be hereinafter referred to.

At the top of the framing there is mounted the vertically reciprocating presser-head, controlled by a spring.

From the framing there extends the so-called anvil or work-support, consisting of a hollow arm, whose top end is of ridge-shape, and which presents at the side an opening, through which access can be had to the interior.

Below the support is a guide-arm for the foot of a fork. The latter carries a shaft, on which there is mounted a cutter-disk, controlled by a spring, secured at the one end to an adjustable collar and bearing with its other end against the boss of the cutter-disk.

The support is provided with a number of slots, registering with other slots in the presser-head.

In the framing there is mounted in a stationary bearing a short shaft carrying at one end a bevel gear, while its opposite end is connected with the shaft by a member having knuckle-joints at the ends.

w is a fly-wheel, on whose shaft there is mounted, within the framing, a spur wheel meshing with a pinion y. This latter is coupled with a bevel gear, which engages with the bevel gear r. The fly-wheel is connected by a rod v with a treadle lever having its fulcrum at u.

At the left-hand side of the framing there is mounted on the fly-wheel shaft a disk having a cam-grove (Fig. 5). A bent lever is connection to the presser-head by a pin and slot joint. The lower arm of the lever is provided with a pin, which engages in the cam-grove of the disk and also in the slot at the end of the one arm of a bent lever, fulcrumed at 8 to the framing. The opposite end of this lever is connected by a pin and slot joint with the foot of the fork.

To commence working, the cutter must first be adjusted in position to suit the length of paper required. This can be done by loosening the collar and disconnecting and drawing out the shaft forwardly, whereupon the cutter can be set in the desired slot. The shaft is then pushed in and secured in place again, and the collar tightened. The collar must be so set that the spring presses the cutter tightly to the edge of the slot, in order to produce a shearing cut.

The paper web is now fed below the presser-head by suitable mechanism, which forms no part of the present invention and therefore need not be described.

The treadle is then depressed whereby the fly-wheel is rotated, its motion being transmitted to the shaft, causing the cutter to revolve. The motion of the fly-wheel shaft is also transmitted by the cam-disk to the levers and, whereby the presser-head will be moved downward, while the foot will be elevated, and the cutter leaving the slot will sever the web.

Having thus described my invention, I declare that what I claim as new and desire to secure by Letters Patent is:

1. In a machine for pasting cardboard-box corners, book covers and the like, in com-
bination, a work-support having a plurality of parallel vertical slots, a rotatable shaft mounted horizontally below the same, a spring-actuated cutting-disk slidably mounted on the shaft and adapted to enter the slots, a presser-head presenting a plurality of slots in alinement with those in the work-support, and means for vertically reciprocating the presser head and the cutter shaft with counter motion.

2. In a machine for pasting cardboard-box corners, book covers and the like, in combination, a work-support having a plurality of parallel vertical slots, a horizontal rotatable shaft located below the same, a spring-actuated cutting-disk slidably mounted on the shaft and adapted to enter the slots, a presser-head presenting a plurality of slots in alinement with those in the work-support, a carrier in which the shaft is slidably mounted, and means for vertically reciprocating the presser-head and the cutter-shaft simultaneously with counter motion.

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

HUGO PEUCKERT.

Witnesses:
PAUL ARRAZ,
CLARE SIMON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."