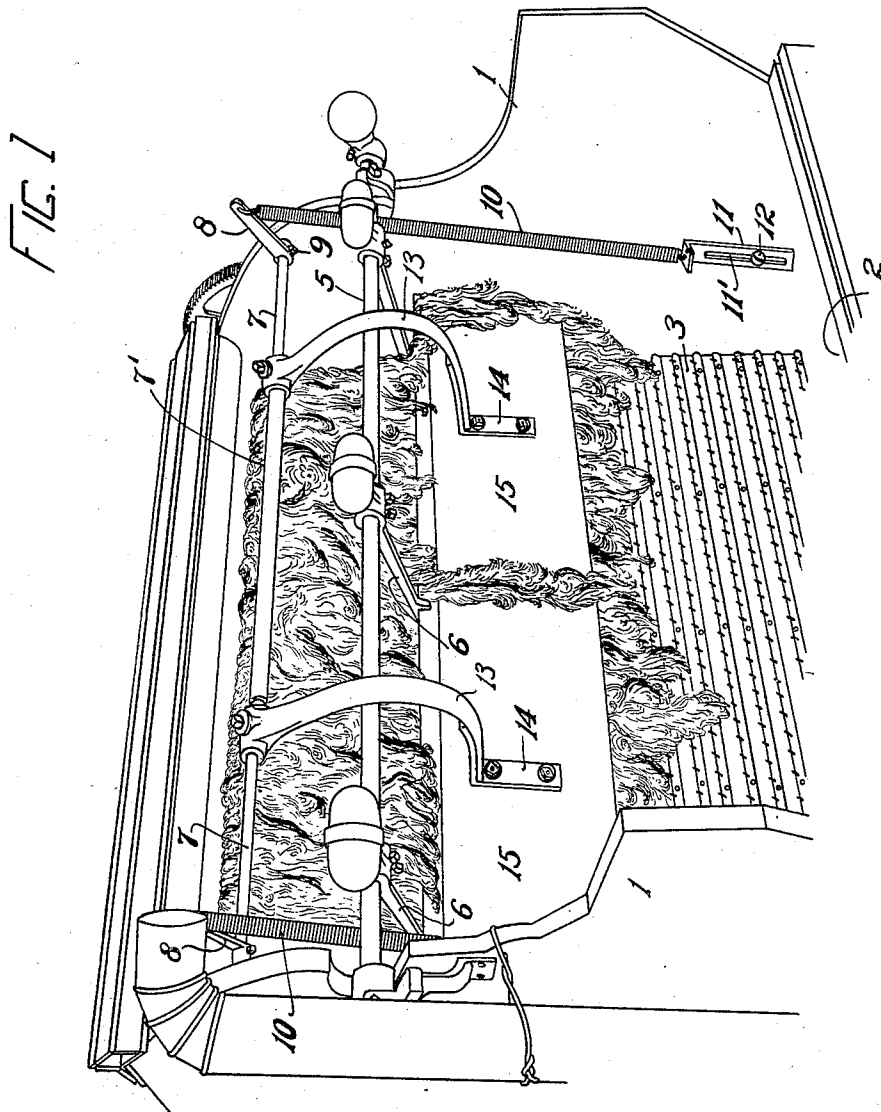


J. W. SCOTT.
 PRESSURE PLATE FOR AUTOMATIC FEEDS.
 APPLICATION FILED JULY 31, 1912.

1,054,718.

Patented Mar. 4, 1913.

2 SHEETS—SHEET 1.



WITNESSES
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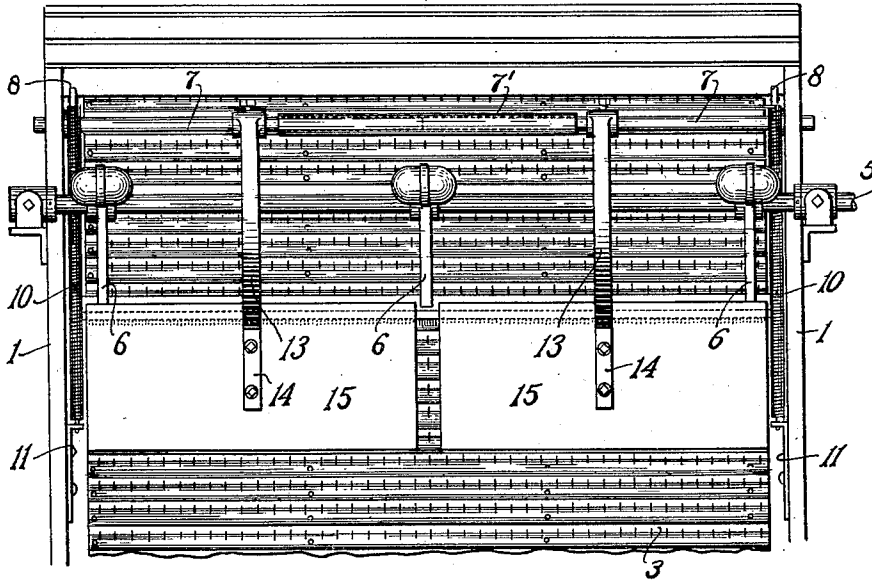


FIG. 2

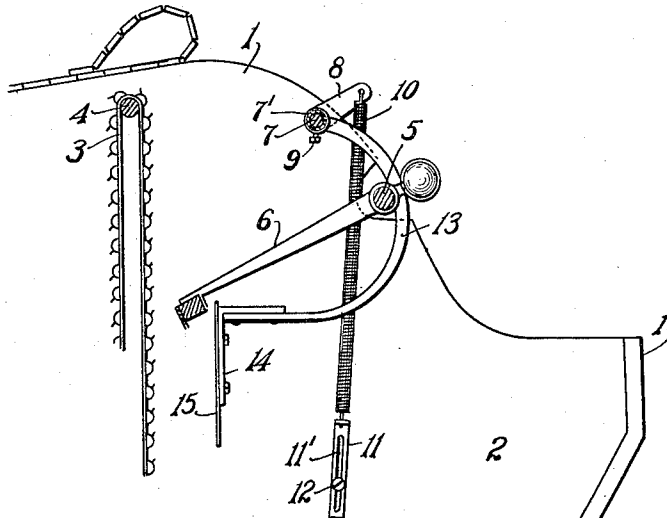


FIG. 3

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JAMES W. SCOTT, OF DEXTER, MAINE.

PRESSURE-PLATE FOR AUTOMATIC FEEDS.

1,054,718.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed July 31, 1912. Serial No. 712,502.

To all whom it may concern:

Be it known that I, JAMES W. SCOTT, a citizen of the United States, residing at Dexter, county of Penobscot, State of Maine, have invented certain new and useful Improvements in Pressure-Plates for Automatic Feeds, of which the following is a specification.

This invention relates to pressure plates for Bramwell and other automatic feeds for carding machines and the like. In these feeds it has been a matter of great difficulty to hold the stock so that the feed will be uniform whether a greater or less amount of material is in a position to be presented to the apron. There is, furthermore, a constant tendency to "sort" the stock which has to be overcome in order that the short and long stock may be made to run together instead of being separated.

In my present invention I have devised means which will secure the uniform feed, which will be capable of proper adjustment, and which will yield properly at either side of the feed in case of any lateral inequality.

The construction and operation of my device will be more fully described in the specification which follows.

Throughout specification and drawings like reference numerals are employed to indicate corresponding parts, and in the drawings, Figure 1 is a view of my feeding device with hopper nearly empty. Fig. 2 is a rear view of a portion of the feed with the hopper open, and Fig. 3 is a sectional view of the same showing the parts in position.

I have shown in the drawings a feed comprising the usual end frames 1 formed with a hopper 2 between which an endless apron 3 is run over rolls 4.

5 is a transverse bar on which the comb arm 6 is mounted.

Between the frames 1 I mount a pair of rods 7 inserted into a central sleeve 7¹ at their inner ends. On the rods 7, at each end, is set a short arm 8 fastened thereon by the set screw 9. The outer end of the short arm 8 has an opening into which one end of a spring 10 is hooked, the opposite end being hooked into a bracket 11 adjustably mounted on the end frame by a bolt 12 which works in a slot 11¹. This permits the adjustment of the tension of the spring 10 on each of the rods 9.

On each of the rods 9 is also mounted a

curved bar 13 arching over the comb bar 5 and approaching the apron 3 at substantially right angles thereto. To the inner end of this arm is bolted a right angle bracket 14 which carries a presser plate 15. The presser plate 15 is, therefore, swung from a center above the comb bar 5 so that in its feeding motion to and from the apron 3 it is maintained in substantially horizontal relation to the apron. This secures a uniformity of feed and a freedom of action which obviates the difficulties heretofore encountered. The two plates 15 supported on the arms 13 swing independently so that the material as it is brought up from the hopper is pressed against the apron with a uniform pressure, regardless of any inequality in the amount taken up on either side of the feed.

Various modifications in the construction and operation of my device may obviously be made, all without departing from the spirit of my invention if within the limits of the appended claims.

What I, therefore, claim and desire to secure by Letters Patent is:—

1. In a feeding device of the class described having a vertically traveling conveyer and a transverse comb bar, a pair of alined bars journaled at their outer ends in the feeder frame above the comb bar, a tubular sleeve inclosing the inner ends of said bar, a curved arm fast on each of said bars and having its lower end normally at right angles to said apron, a right angled bracket adjustably bolted to said lower end, a presser plate on each of said brackets swung from a center above the comb bar and disposed to lie normally parallel with said conveyer, a short arm adjacent to the outer end of each of said bars and fast thereon, a spring attached at one end to said short arm and a bracket having an elongated slot and an adjusting bolt working therein for adjustably attaching the opposite end of said spring to the adjacent end frame.

2. In a feeding device of the class described, having a traveling conveyer and a transverse comb bar, a pair of alined bars journaled at their outer ends in the feeder frame above and parallel to the comb bar, a tubular sleeve inclosing the inner ends of said pair of bars, a curved arm fast on each of said bars adjacent to its connection with the sleeve and each having its lower end normally at right angles to the conveyer apron, a presser plate adjustably suspended

from each of said arms and swung from a center above the comb bar so as to lie normally parallel with said conveyer, a short arm at the outer end of each of said alined
5 bars, springs connected to the free ends of said short arms and disposed substantially parallel to the conveyer and presser plates, brackets having slots and secured to the end members of the feeder frame, and bolts

working in said slots for adjusting the opposite ends of said springs. 10

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

JAMES W. SCOTT.

Witnesses:

PERCY A. HASTY,
C. C. PALMER.

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