

(No Model.)

A. ANDERSON.
MACHINE FOR SANDING MATCH BOXES.

No. 570,244.

Patented Oct. 27, 1896.

Fig. 1.

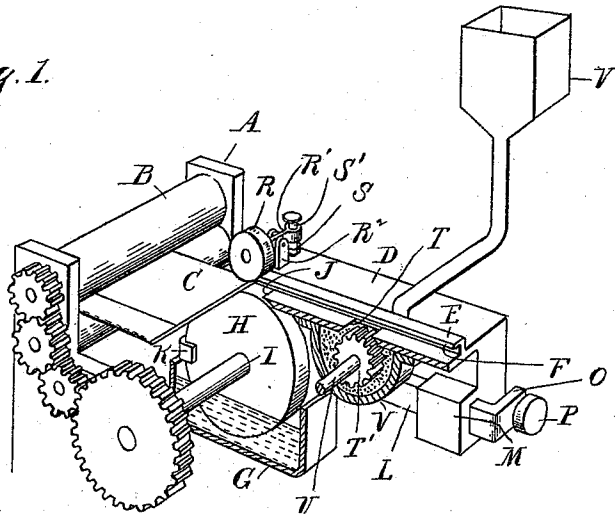


Fig. 2.

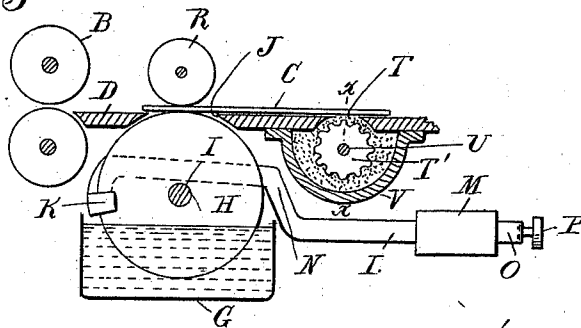
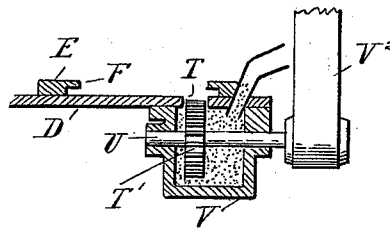
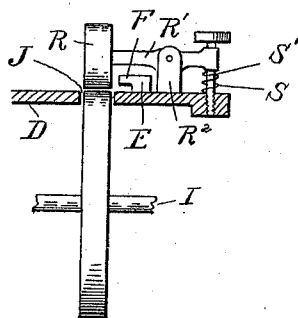


Fig. 3.

Fig. 4.



Witnesses
A. L. Kobby
R. M. Hulbur

Inventor
Andrew Anderson
By *Wm. S. Sprague* Attys.

UNITED STATES PATENT OFFICE.

ANDREW ANDERSON, OF DETROIT, MICHIGAN, ASSIGNOR TO THE
IMPROVED MATCH COMPANY, OF SAME PLACE.

MACHINE FOR SANDING MATCH-BOXES.

SPECIFICATION forming part of Letters Patent No. 570,244, dated October 27, 1896.

Application filed October 14, 1895. Serial No. 565,646. (No model.)

To all whom it may concern:

Be it known that I, ANDREW ANDERSON, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Machines for Sanding Match-Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in the construction of a machine for sanding match-boxes, or what is generally known as the "match-box shucks."

15 The invention consists in the construction, arrangement, and combination of the various parts, all as more fully hereinafter described.

In the drawings, Figure 1 is a sectional perspective of a machine embodying my invention. Fig. 2 is a longitudinal section there-
20 through beside the sanding-wheel. Fig. 3 is a detail section illustrating the construction of the presser-roll for applying the glue; and Fig. 4 is a cross-section on line *xx*, Fig. 2.

25 My machine is usually applied as an attachment to a machine for making the tube from which the shucks are cut and which I shall refer to hereinafter as the "blank." The various parts may be driven from any desired source of power.

30 A is a suitable frame, in one end of which are the feed-rolls B, both live rolls, for feeding the blank C flat upon and over the table D. On this table are the guides E, having the overhanging lip F, beneath which the
35 edges of the blank engage and are guided, these lips serving to hold the blank flat upon the table. Beneath the table is a glue or paste pot G, in which runs the paste-applying roller or wheel H on the shaft I. The up-
40 per edge of this wheel projects through the aperture J in the table and preferably slightly projects above the top of the table, as shown in Fig. 2.

45 K is a scraper shaped to embrace the upwardly-moving portion of the wheel H and supported on the arm L, which has a straight portion engaging a horizontal guide M below the table and the upwardly-bent portion N extending over the paste-pot. This scraper
50 has the offset O at its outer end, through which the set-screw P passes, engaging in a

screw-threaded bearing in the frame, and by means of which the scraper may be accurately adjusted in relation to the paste-wheel.

R is a presser-roll journaled on the end of 55 the lever R', fulcrumed on a pin in the lugs R² on the table.

S' is an adjusting-screw working in a screw-threaded aperture in the table and passing through an aperture in the end of the lever 60 R'. The screw S' is provided with a head for operating it, which head is adapted to limit the upward movement of the end of the lever R', through which it passes. Sleeved on the adjusting-screw between the lever and 65 the table is a spring S, tending to lift the end of the lever and depress the roll R on the opposite end. It will be seen that by this arrangement if the screw be turned down the spring will be compressed and the roll lifted 70 and that if the head of the screw be raised the spring will cause the end of the lever to follow it, and consequently lower the pressure-roll. I am thus enabled to adjust the pressure by which the blank is pressed by 75 the roll R upon the paste-wheel for any thickness of material.

In line with the paste-roll is a second aperture T in the table, below which is the rapidly-revolving toothed wheel T', secured on 80 a shaft U, journaled in opposite sides of the sand-box V, secured below the table.

V' is a hopper spouted to the sand-box for supplying sand thereto.

The feed-rolls and the paste-roll H, I have 85 shown as driven by intermeshing gears and the sanding-wheel by an independent drive-belt V².

The blank being brought to the feed-rolls is fed through the same upon the table, its 90 edges being guided as described. The paste is applied as the blank passes between the rolls H R, the spring S pressing the blank (through the upper roll) upon the pasting-wheel. While the paste is wet, the blank is 95 fed over the sanding-wheel, which throws the sand upon it, a thin layer adhering to it and producing a thorough even sanding. The guides prevent the force of the sand or the air from the sanding-wheel from lifting the 100 blank, so that with this construction no sand will get upon the table and such portion as

does not adhere to the blank falls back into the sand-box V.

What I claim as my invention is—

5 In a match-box-sanding machine, the combination with the table, a paste-pot, and a
pasting-roll working in the paste-pot and
having its periphery slightly above the table-
top, of a scraper for the pasting-roll, a sup-
10 porting-arm for said scraper extending from
the scraper over the paste-pot to one end of
the machine and having an offset at or near

its end, a bearing in which said arm is supported and slides, and a set-screw carried by said offset and engaging a stationary part of the machine for adjusting said arm, substantially as set forth. 15

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

ANDREW ANDERSON.

Witnesses:

JAS. WHITEMORE,
M. B. O'DOHERTY.