

A. F. ROESSLE.
SHEET JOGGING MACHINE.
APPLICATION FILED MAR. 1, 1909.

954,136.

Patented Apr. 5, 1910.

3 SHEETS—SHEET 1.

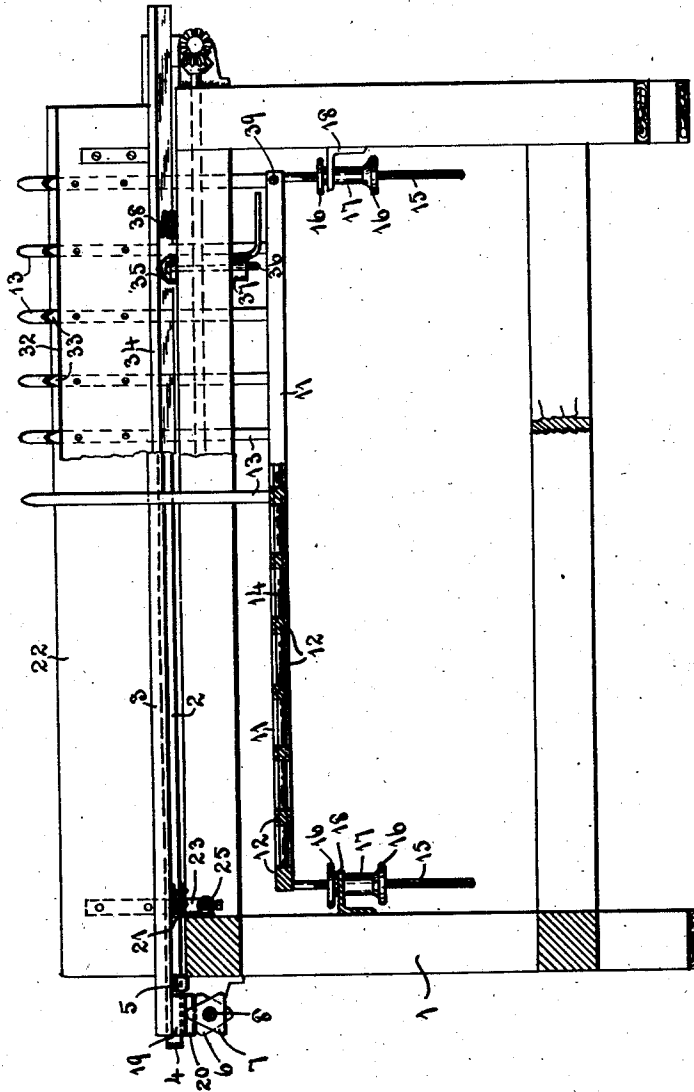


Fig. 1.

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Attorney

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August D. Roessle

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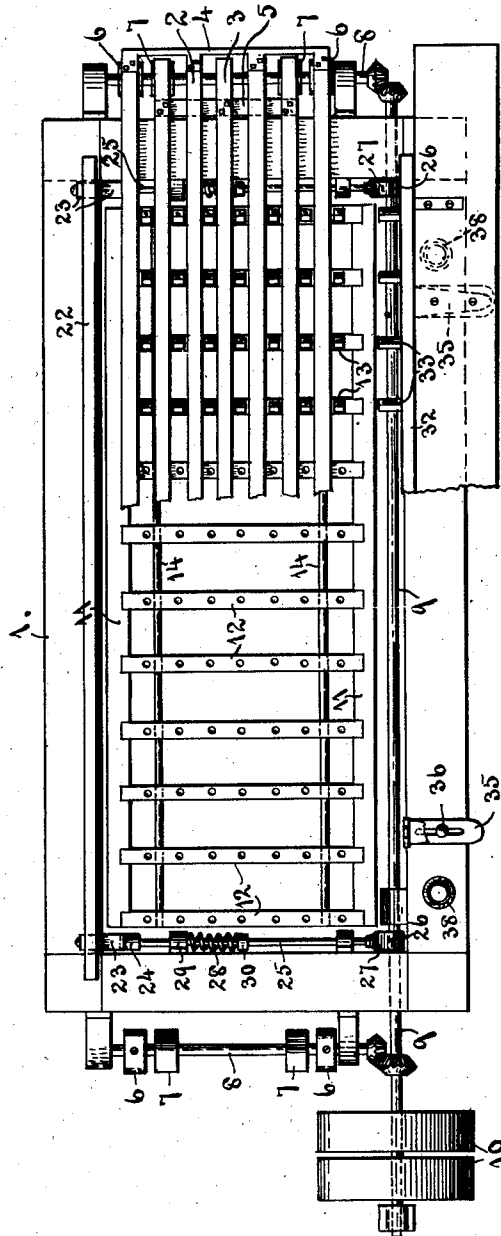


Fig. 2.

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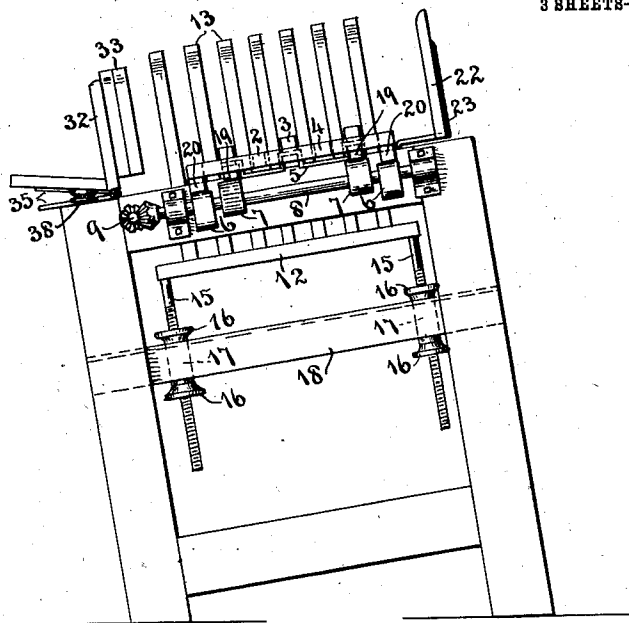


Fig. 3.

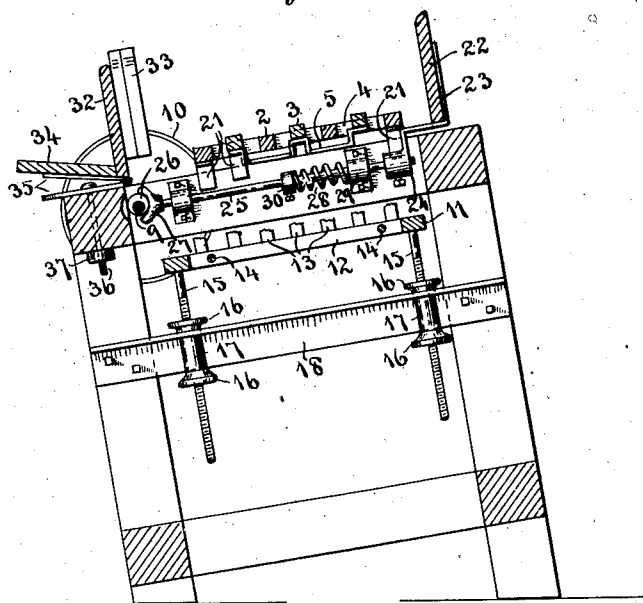


Fig. 4.

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UNITED STATES PATENT OFFICE.

AUGUST F. ROESSLE, OF ELMIRA, NEW YORK, ASSIGNOR TO AMERICAN SALES BOOK COMPANY, OF ELMIRA, NEW YORK.

SHEET-JOGGING MACHINE.

954,136.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed March 1, 1909. Serial No. 480,517.

To all whom it may concern:

Be it known that I, AUGUST F. ROESSLE, a citizen of the United States, residing at Elmira, in the county of Chemung and State of New York, have invented certain new and useful Improvements in Sheet-Jogging Machines, of which the following is a specification.

This invention relates to improvements in machines for jogging into proper register in both directions the leaves of books, pads, and the like, or any loose sheets that are to be stacked or piled for bundling, binding, etc.; and the object of my improvements is to produce a machine which will effectively and rapidly accomplish this purpose by combined vertical and horizontal jogging means, and which will have a capacity for jogging any desired number of sets of leaves in separate compartments simultaneously.

A further object is to provide a machine of this character which can be readily adjusted to various sizes of sheets and to different thicknesses in the sets of sheets.

I attain my objects by constructing the machine in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the machine, parts being shown sectioned longitudinally through the center of the machine; Fig. 2, a plan view, with parts of the upper portion of the machine broken away; Fig. 3, an end elevation of the machine; and Fig. 4, a vertical transverse section through the center of the machine.

Like numerals designate like parts in the several views.

Above a skeleton table 1, there are mounted two horizontal slat frames, 2 and 3, the slats of one frame alternating with the slats of the other. The slats of frame 2 are fastened together by end pieces 4, and the slats of frame 3 are fastened adjacent their ends by cross pieces 5, which are bent downward to provide clearance room between them and the slats of frame 2, as shown in Fig. 4. These slat frames rest at each end upon triangular cams 6 and 7, respectively; the outermost slats on each frame being provided with downwardly projecting blocks 19 and 20 to engage the cams. These cams are mounted upon transverse shafts 8, journaled in bearings fastened to the ends of the table. A longitudinal shaft 9, provided with fast and loose pulleys 10 at one end drives the

shafts 8 by means of bevel gears, as shown in Fig. 2. The rotation of these shafts causes the alternate rise and fall of the slat frames 2 and 3.

Below the slat frames is a stationary frame composed of side bars 11, and a plurality of transverse bars 12, the ends of said bars being notched into the side bars 11, and being supported by longitudinal rods 14, which pass through the cross bars adjacent their ends. The end cross bars are fastened to the ends of the side bars by screws, as shown at 39 in Fig. 1. Fastened to the cross bars 12 are stakes 13, which rise between the slats on the two slat frames, thus forming a series of transverse compartments from one end of the machine to the other. This stake frame is supported at the four corners upon posts 15, said posts passing through guides 17 attached to cross pieces 18, fastened to the legs of the table. The posts are screw threaded, so as to be adjusted up and down in the guides 17, hand nuts 16 being provided above and below the guides 17, for so adjusting the posts and locking them in adjusted position.

The stakes 13 hold the slat frames against transverse displacement, and longitudinal displacement of the slat frames is prevented by angle plates 21, fastened at each end of the slat frames, and adapted to slide against the inward faces of the end frame members of the table.

At one side of the machine is a side jogger board 22, which, adjacent each end is fastened by angle piece 23 to a hub 24, adjustably mounted on a rod 25, said rods being slidably mounted in brackets attached to the inside of the end frame members of the table. These rods 25 are reciprocated by means of eccentrics 26 fastened to shaft 9, the ends of the rods being provided at 27 with bearing pieces to engage the eccentrics. The return motion of the rods is accomplished by means of springs 28 mounted on the rods between a supporting bracket 29 and an adjustable collar 30, whereby the tension of the springs may be properly adjusted to regulate the jogger blows. At the other side of the machine is a board 32 provided at 33, opposite each row of stakes, with vertical division strips. At its lower edge, the board 32 is fastened at a slightly acute angle to a board 34, which is fastened by means of strap hinges 35 to the upper side

of a side member of the table. The lower strap of these hinges is slotted, and a bolt 36 passes through the slot and through the table member, on the underside of which it is provided with a clamping nut 37. The board 32 may thus be set toward or away from the slat frames, as the work may require. Coiled springs 38 are set in sockets on the frame member adjacent each end thereof, said springs engaging the underside of the board 34, thereby permitting the board 32 to spring slightly back and forth on its hinges, when the sets of leaves are acted upon by the jogger board 22. The function of this spring board is to cause a slight rebound after each stroke of the side jogger in order that the leaves may stand free to be acted upon at the next stroke of the jogger.

By changing the side bars 11 for other side bars having notches for the cross bars 12 set nearer together or farther apart, and moving the cross bars upon the longitudinal rods 14, to fit said notches, the compartments between stakes may be made narrower or wider as the work may require; additional cross bars and stakes being added, where the notches are closer together, and cross bars and stakes being removed, where the notches are farther apart. The division strips 33 will also be moved along the board 32 and fastened thereon to correspond to the adjustment of the compartment stakes.

The legs of the table on the spring board side of the machine are cut shorter than the others to so tilt the machine as to give the sets of leaves a tendency to slide down the compartment and rest against the face of the spring board, while under the action of the joggers, thus preventing too much rebound after they strike the spring board.

When the machine has been properly adjusted in its several parts to correspond with the length, width and thickness of the sets of leaves to be jogged, these sets will be fed into the machine by an operative at one side, the sets being placed in the compartments from one end of the machine to the other; and after being brought into proper register, the sets will be removed by an operative at the other side of the machine; fresh sets being placed in the machine as fast as sets are removed, the work being thus expeditiously accomplished, with the employment of but two workmen.

What I claim as my invention and desire to secure by Letters Patent is—

1. A jogging machine comprising two slat frames, the slats of one frame alternating with those of the other, and means for moving said frames to throw the slats of one frame out from between those of the other alternately.

2. A jogging machine comprising two horizontal slat frames, the slats of one frame

alternating with those of the other, transverse shafts journaled beneath the frame adjacent the ends thereof, cams on the shafts adapted to alternately raise and lower the frames, and means for imparting motion to the shafts.

3. A jogging machine comprising two horizontal slat frames, the slats of one frame alternating with those of the other, a plurality of transverse rows of stakes rising between the slats to form compartments thereover, and means for alternately raising and lowering the slat frames.

4. A jogging machine comprising two horizontal slat frames, the slats of one frame alternating with those of the other, means for alternately raising and lowering said frames, a jogger board at one side of the frames parallel to the slats, and means for imparting a sidewise reciprocating motion to said board.

5. A jogging machine comprising two horizontal slat frames, the slats of one frame alternating with those of the other, means for alternately raising and lowering said frames parallel to the slats, a jogger board at one side of the frames, means for imparting a sidewise reciprocating motion to said board, a side board at the other side of the frames, and a plurality of transverse compartments between said boards across the slat frames.

6. A jogging machine comprising two horizontal slat frames, the slats of one frame alternating with those of the other, means for alternately raising and lowering said frames, a jogger board at one side of the frames, means for imparting a sidewise reciprocating motion to said board, and a board at the other side of the frames mounted to spring back and forth with a sidewise motion.

7. In a jogging machine, the combination, with a sidewise reciprocating jogger, of a board opposite the jogger mounted to spring back and forth with a sidewise motion.

8. In a jogging machine, the combination, with a sidewise reciprocating jogger, of a board mounted on hinges opposite the jogger board and spring actuated means for maintaining the board in vertical position.

9. In a jogging machine, the combination, with a sidewise reciprocating jogger, of a board set opposite thereto, a second board fastened horizontally to the first along its bottom edge, hinges fastening the second board to the frame of the machine, and springs between said second board and the frame.

10. In a jogging machine, the combination, with horizontal vertically reciprocating slat frames, of a stationary frame below the slat frames, stakes rising in transverse rows between the slats, and means for vertically adjusting the stake frame.

11. In a jogging machine, the combination, with horizontal vertically reciprocating slat frames, of a stationary frame below the slat frames, said frame comprising side bars and a plurality of transverse bars, the latter provided with vertical stakes which project through the slat frames.

12. In a jogging machine, the combination with a rotating driving shaft, of a pair of reciprocating rods mounted at right angles thereto, cams on the shaft to actuate said rods in one direction, springs to actuate the rods in the reverse direction, and a jogger board fastened to the rods.

13. A jogging machine comprising means for holding a plurality of sheets on edge, means for jogging the sheets vertically, and separate means for jogging the sheets horizontally.

14. A jogging machine comprising means for holding a plurality of sheets on edge, means for vertically jogging the sheets from below, means for jogging the sheets at one

side, and a spring-actuated stop for the sheets at the opposite side.

15. A jogging machine comprising means for holding a plurality of sheets on edge, means for vertically jogging the sheets from below, means for jogging the sheets at one side, and a spring-actuated stop for the sheets at the opposite side, the vertical jogging means being set on a tilt toward the spring-stop.

16. A jogging machine comprising means for holding a plurality of sets of leaves on edge in separate compartments, means for simultaneously jogging said sets of leaves vertically and separate means for simultaneously jogging the sets horizontally.

In testimony whereof I have affixed my signature, in presence of two witnesses.

AUGUST F. ROESSLE.

Witnesses:

A. M. BOVIER,
M. E. VERBECK.