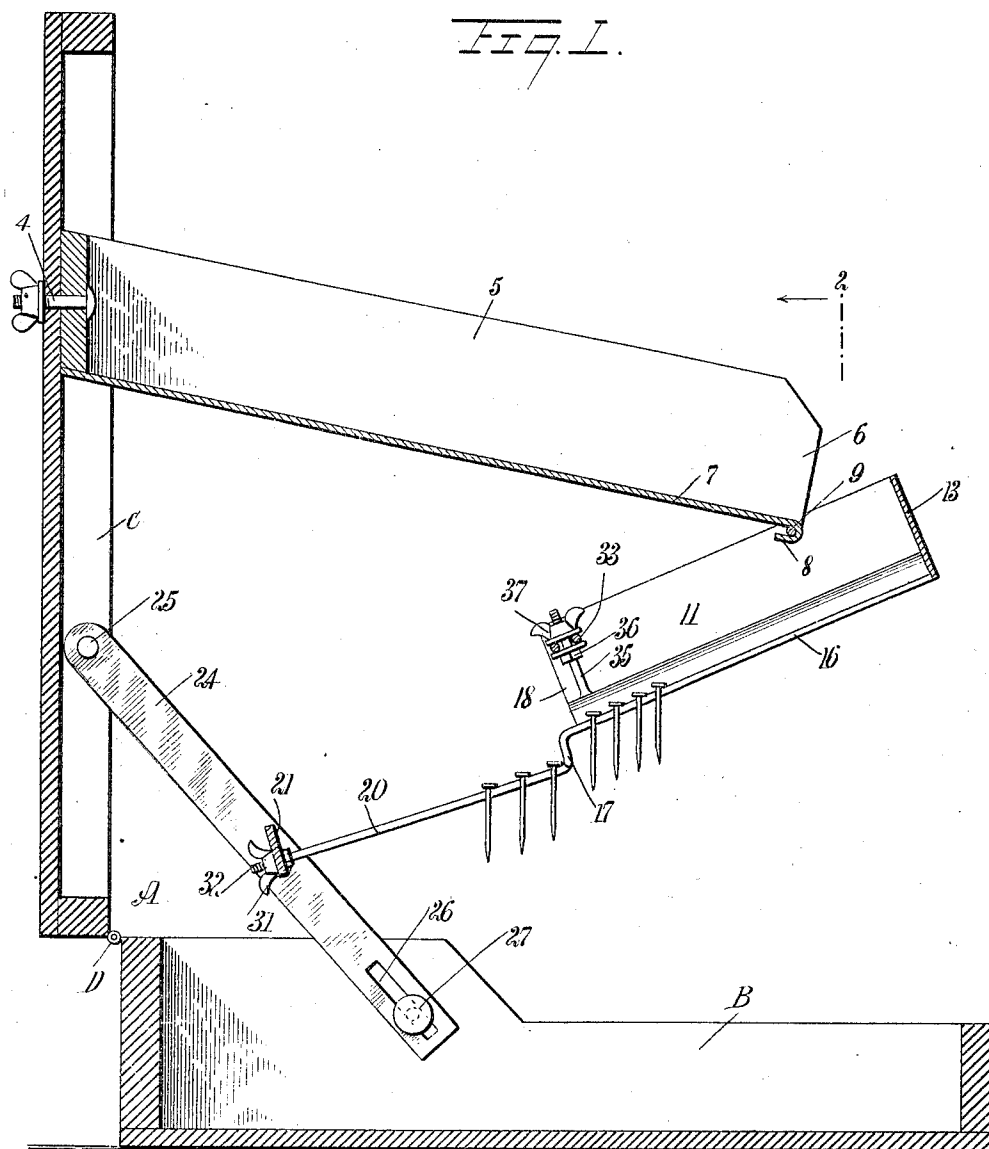


NAIL STRIPPER.

1,051,282.

2 SHEETS—SHEET 1.



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APPLICATION FILED APR. 2, 1912.

1,051,282.

Patented Jan. 21, 1913.

2 SHEETS—SHEET 2.

Fig. 2.

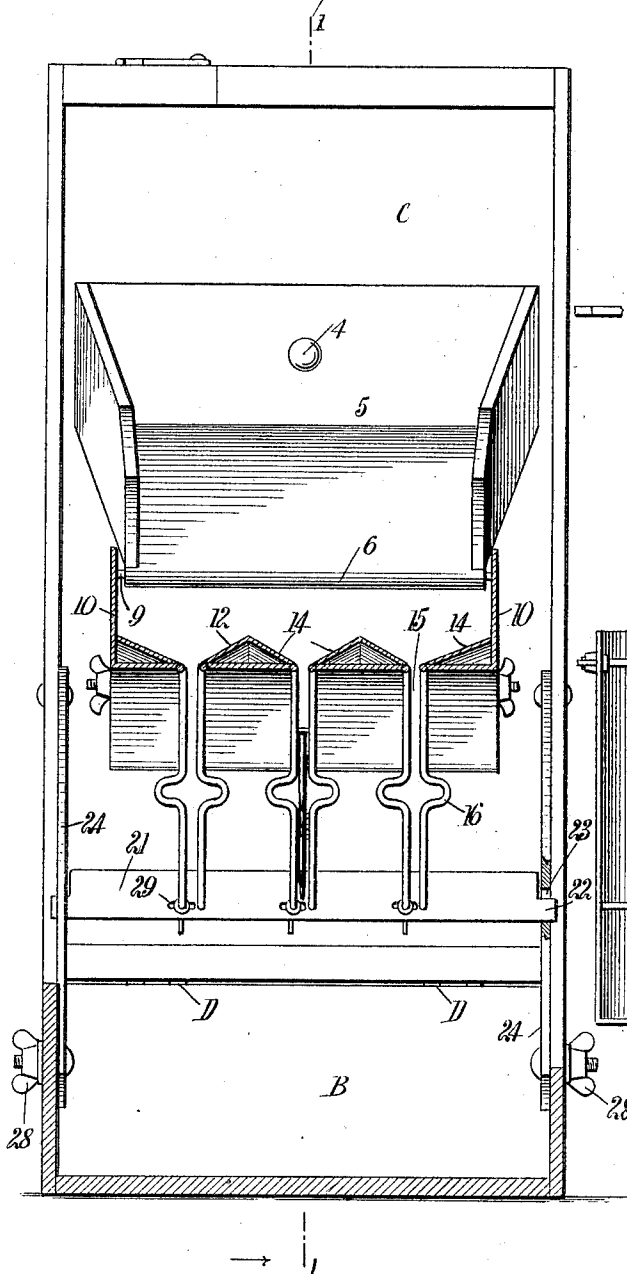
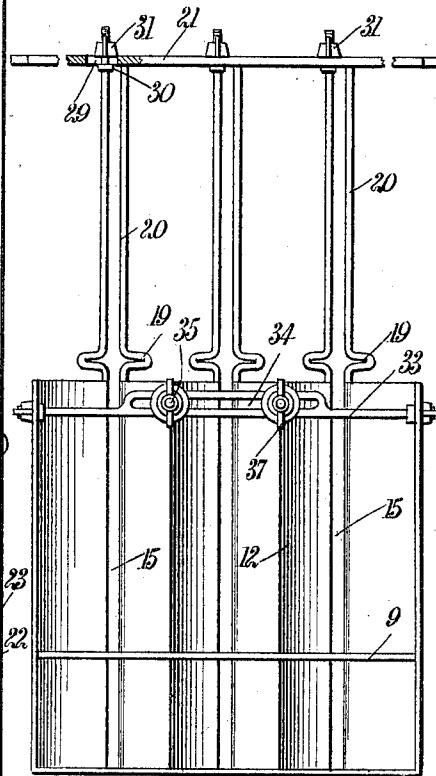


Fig. 3.



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UNITED STATES PATENT OFFICE.

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NAIL-STRIPPER.

Specification of Letters Patent.

Patented Jan. 21, 1913.

1,051,282.

Application filed April 2, 1912. Serial No. 687,983.

To all whom it may concern:

Be it known that I, CHARLES F. SMITH, a citizen of the United States, and a resident of Los Angeles, in the county of Los Angeles and State of California, have invented a new and Improved Nail-Stripper, of which the following is a full, clear, and exact description.

My invention relates to a new and improved form of nail stripper, and an object of my invention is to provide a simply constructed device in which different sized nails may be inserted, the nails automatically aligning themselves so that they may be withdrawn heads up. I attain the above outlined object by positioning within a suitable casing, an inclined hopper from which the nails are fed in grooved tracks, from which they may be readily withdrawn in assembled order.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures, and in which—

Figure 1 is a vertical longitudinal sectional view taken through a preferred embodiment of my invention and on the line 1—1 of Fig. 2, looking in the direction of the arrow; Fig. 2 is a transverse sectional view taken on the line 2—2 of Fig. 1 and looking in the direction of the arrow; and Fig. 3 is a plan view looking down upon the nail chute showing the means for varying the slots.

Described more in detail, the casing A comprises a bottom part B, and a cover C, fastened to the same by means of hinges D. Removably fastened by means of a wing nut and-bolt 4 to the inside of the cover C, is an inclined hopper 5, the lower end 6 of which is open and the floor 7 of which is turned back upon itself, as shown at 8, to form a removable retaining means for a supporting rod 9, which rod has its opposite ends fastened to the spaced-apart side plates 10 of a nail chute 11, the bottom of which nail chute comprises a series of spaced-apart longitudinally-extending sections 12 fastened by any suitable means to the front side 13 of the chute 11. As shown more particularly in Fig. 2, the sections 12 are in the form of isosceles triangles in cross section, so as to form a series of inclined sides 14 leading to

the nail slides 15. These nail slides are outlined by means of wire rods 16 extending from the front side 13 and offset downwardly, as shown at 17, just beyond the lower inner edge 18 of the chute 11, the rods 16 at the point 17 being bent outwardly away from the slot, to form a U-shaped offset portion 19. Beyond this offset portion 19, the wires of each slot extend parallel to each other, to form a track 20. The inner forward ends of the tracks 20 are fastened to the transversely-extending plate 21, which plate has its opposite ends reduced to form bearings 22, said bearings being pivotally mounted within a recess 23 in adjustable brackets 24, one end of each of which brackets is pivoted at 25 to the opposite inner transverse sides of the cover C. The lower end of each of said brackets has extending therethrough, a slot 26, in which slot is positioned a bolt 27, which bolt passes through opposite transverse sides of the bottom part B and is held in position by means of a wing nut 28. It will be seen that by the construction described, the nuts 28 may be loosened so as to change the pitch of the chute 11, to obtain the proper angle for the particular form and size of nails used.

Should it be desired to vary the size of the slots 15, the free end of one of the tracks 20 may be adjustably mounted in the plate 21, and as shown more particularly in Figs. 2 and 3, this connection may be varied by means of a slot 29, through which projects the free end of one of the tracks 20, which track carries on one side of the slot 29, a washer 30, and on the opposite side of the slot, carries a jam nut 31 engaging the threaded end 32 of the track 20. By loosening the nut 31, the slots 15 may be varied at will. Not only may the slots 15 be varied by means of the connection at the slots 29, but the sections 12 may also be adjusted by bringing the lower free ends thereof toward or away from each other. This is attained by connecting the lower transverse side plates 10 by means of a slotted plate 33, within the slot 34 in which is positioned a vertically-extending rod 35, rigidly positioned adjacent the lower end of the top face of the intermediate sections 12. Rigidly mounted upon the rod 35 and below the plate 33, is a nut 36 having a broad head bearing on the under side of said plate, as shown

more particularly in Fig. 1, and bearing on the top of the plate 33 is a wing nut 37. By the above outlined construction, it will be seen that by loosening the nuts 37, the sections 12 may be moved to the right or left, as shown in Fig. 3, and rigidly held in place by rotating the nuts 37 into firm engagement with the plate 33.

In the operation of my device, the nails are dumped into the hopper 5 and preferably sprinkled with powdered soap-stone, and the nails fall by gravity. The percussion caused by the hammering of the workman on his bench, will cause the nails to slide from the hopper 5 into the chute 11. In rolling upon the incline 14, the body of the nails will fall into the slots 15 and will be held by their heads and gradually work themselves down on to the track 20. Due to the opening formed by the offset portions 19, the nails on the track 20 may be withdrawn as desired, the workman grasping a handful of nails with their heads up in position ready to be driven.

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

1. A nail stripper, comprising an inclined hopper, a nail chute adjustably mounted relative to said hopper, means carried by said chute for positioning the nails with their heads up, a track leading from said chute and offset downwardly, and means formed by said track at the offset portion, permitting the withdrawal of the nails from the same.
2. A nail stripper, comprising an inclined hopper, an inclined nail chute having side plates to which the hopper is pivotally connected, means varying the angular relation between said hopper and chute, the bottom of said chute comprising a series of spaced apart sections forming nail slots therebetween, the lower free ends of the intermediate sections of said nail chute bottom being adjustable toward and from each other to vary the extent of the slots, a slotted plate connecting the lower ends of the side plates of the nail chute with each other, vertical rods connected with the said intermediate sections of the nail chute bottom and extending through the slot in said plate, and means engaging said rods to hold the said intermediate sections in adjusted position.
3. A nail stripper, comprising an inclined hopper, a nail chute pivotally connected to said hopper, means varying the angular relation between said hopper and chute, the bottom of said chute comprising a series of spaced-apart sections forming nail slots therebetween, means connected to said sections for varying the extent of said slots, pairs of tracks extending from said chute forming nail slots and a supporting plate to which the free end of one of the tracks

of each pair is secured, the said supporting plate being provided with slots, the ends of the other tracks being adjustably mounted in the slots of said plate to vary the slots between said tracks.

4. A nail stripper, comprising a casing having a bottom part and a cover hinged thereto, a hopper removably mounted upon said cover and extending over said bottom part, a chute pivoted to the lower forward end of said hopper and extending downwardly and rearwardly toward said cover, a bracket pivoted to said cover and in adjustable engagement with said bottom, and a plate rotatably mounted upon said brackets, and affording means for holding the lower end of said chute.

5. A nail chute, the bottom of which comprises a series of spaced-apart sections triangular in cross section, said triangle-shaped sections forming inclined sides leading to the slots formed by the spacing apart of the members, and rods carried by said sections, forming the outlines of said slots and extending from said chute to form a nail track, the said rods being offset downwardly and bent outwardly from each other at the offset portion to enlarge the slot at said portion.

6. A nail chute, the bottom of which comprises a series of spaced-apart sections triangular in cross section, said triangle-shaped sections forming inclined sides leading to the slots formed by the spacing apart of the members, and rods carried by said sections, forming the outlines of said slots and extending from said chute to form a nail track, the said track being offset downwardly adjacent the lower end of the chute, the space between the rods being enlarged at said offset portion to permit of withdrawing the nails from the track and means for varying the distance between said rods.

7. A nail track comprising a pair of spaced apart inclined rods, each of said rods being offset downwardly and each rod being bent outwardly from the other intermediate its length and in transverse alinement to the other, to afford means for withdrawing the nails from said track.

8. A nail track, comprising a pair of spaced apart inclined rods, each of said rods being offset downwardly and each rod being bent outwardly from the other, intermediate its length and in transverse alinement to the other, to afford means for withdrawing the nails from said track, the end of one of said wires being movable relative to the other and the intermediate portion of said other wire being adjustable relative to said first-mentioned wire.

9. A nail stripper comprising a support, a hopper removably secured to said support, and inclined downwardly and forwardly, a chute pivoted to the lower for-

ward end of said hopper and inclined downwardly and rearwardly, nail tracks extending from the chute, a plate to which the free ends of the nail tracks are fastened, and
5 means for adjusting said plate to vary the inclination of the chute and nail tracks.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

CHARLES F. SMITH.

Witnesses:

ELECTA BON DURANT,
LUCILLE M. COOK.

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