No. 626,987. Patented June 13, 1899.

R. & P. DINESON.

NAIL DISTRIBUTER.

(Application filed Nov. 26, 1898.)

(No Model.)

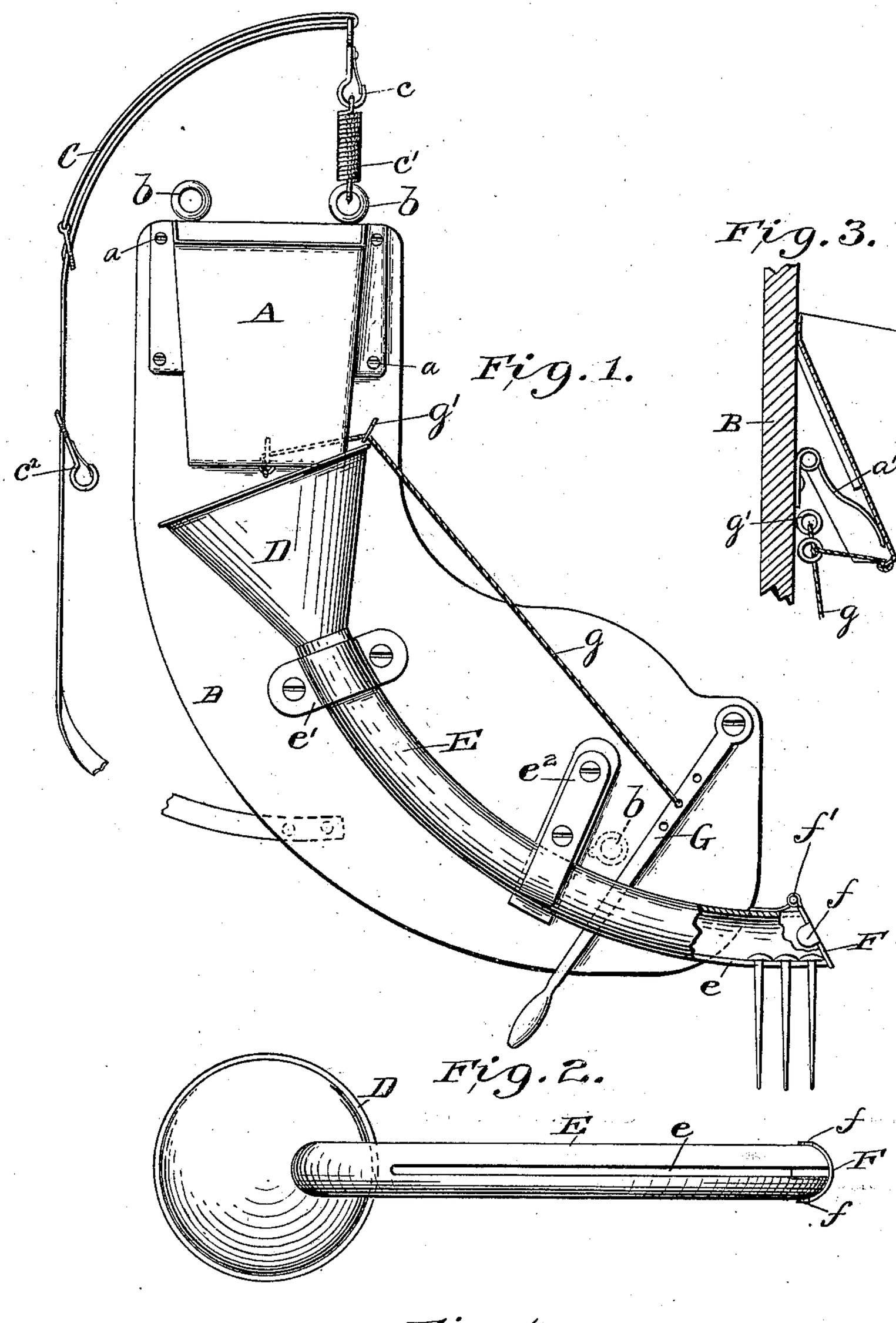

Fig. 1.

Fig. 3.

Fig. 2.

Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

ROGER DINESON AND PETER DINESON, OF ALBION, IOWA.

NAIL-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 626,987, dated June 13, 1899.

Application filed November 26, 1898. Serial No. 697,555. (No model.)

To all whom it may concern:

Be it known that we, ROGER DINESON and PETER DINESON, citizens of the United States, residing in Albion, in the county of Butler and State of Iowa, have invented certain new and useful Improvements in Nail-Distributers, of which the following is a specification.

Our invention relates to nail-distributers, and has for one of its objects to provide a device which can be carried by a workman and which will present the nail to his hand ready for driving.

Another object of our invention is to enable a workman in cold weather to wear gloves without impairing his efficiency in handling and driving the nails.

Another object of our invention is to prevent the loss by dropping so common in the present way of handling the nails.

Another object of our invention is to provide a means whereby headless and worthless nails are automatically dropped and never reach the workman's hand.

Another object of our invention is to provide a device which will facilitate the nail-driver's work by presenting the nail head up, ready to his hand, and thus enable him to do from thirty to seventy-five per centum more work than could be done without the device.

These objects we accomplish in the manner and by the means hereinafter more fully described in detail, and particularly pointed out in the claims, reference being had to the drawings, in which like reference-letters indicate like parts in all the figures.

Figure 1 is a front elevation of our invention. Fig. 2 is a bottom plan view of chute, showing slot. Fig. 3 is a sectional view of the nail-hopper. Fig. 4 is a cross-section of chute.

Our invention consists of a hopper A, secured by screws *a* to a frame B, adapted to be strapped in front of a workman. The frame B has two screw-eyes *b* in the top and a screw-eye *b* in the back, near the lower left-hand corner. An extensible strap C has one end fastened to the back of the frame B, near the lower right-hand corner, a spring-catch *c*, which runs in the loop of said strap C and is fastened to a coiled spring *c'*, secured in one of the screw-eyes *b* in the top of the frame B, and a spring-catch c^2, which slides along said strap C. The rear of the hopper A is not secured to the sides for some distance from the lower end and is pressed forward and against the front of the hopper A, closing the outlet by a spring *a'*, fastened behind it to the frame B. Immediately under the hopper A a funnel D is placed. The funnel D terminates in a cylindrical chute E, curved toward the workman's left hand and provided with a longitudinal slot *e* along its bottom. The funnel D and chute E are firmly secured to the frame B by a strap *e'* around the chute E, just above the upper end of the slot *e*, and by a clamp e^2 lower down, said clamp not extending over the slot *e*. The lower end of the chute E is closed by a door F, provided on each side with an ear *f*, adapted to fit snugly along the side of said chute E. The said door F is hinged to the side of the end of the chute E opposite the slot *e* by spring-hinges *f'*. A lever G is pivotally mounted near the bottom of the frame B and connected by a cord *g* or other suitable means through a screw-eye *g'*, secured to the frame B, behind the lower end of the hopper A, with the lower end of the rear piece of said hopper A.

The operation of our device is as follows: The frame B is placed in front of the workman, with the top on a level with his chin, and the strap C passed over the right shoulder and brought around the back by the left hand and secured by the spring-catch c^2 to the screw-eye *b* in the back of the frame B, near the lower left-hand corner. This will bring the lower end of the chute E within easy reach of the workman's left hand. The hopper A is filled with nails and the lever G is pulled down by forefinger of the left hand and released quickly. This opens the mouth of the hopper A and the nails fall into the funnel D and pass thence into the chute E, in passing along which they naturally by gravitation drop through the slot *e* until stopped by their heads. This delivers them head up at the lower end of the chute E, and a slight pressure against the door F releases them as needed. Headless and imperfect nails drop through the slot *e*, leaving only good nails to reach the door F.

It will be readily seen that by reversing the frame B, making the back the front and re-

adjusting the parts accordingly, the device will be adapted to a left-handed man.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a nail-distributing machine, a frame adapted to fit against the front of the workman's body, straps adapted to pass around said workman and hold said frame in place, and a cylindrical slotted chute attached to said frame and curved so as to bring its lower end convenient to the workman's hand, substantially as shown and described.

2. In a nail-distributing machine, a frame adapted to fit against the front of the workman's body, its top just to the side of, and under, his chin, straps adapted to pass around said workman's body and hold said frame in place, and a curved cylindrical slotted chute provided with a spring-door at its lower end and attached to said frame, the lower end of said chute being convenient to said workman's hand, substantially as shown and described.

3. In a nail-distributing machine, a frame adapted to fit against the front of the workman's body, its top just to the side of and under his chin, straps adapted to pass around said workman's body and hold said frame in place, a curved cylindrical slotted chute provided with a spring-door at its lower end and attached to said frame, the lower end of said chute convenient to said workman's hand, and a nail-receptacle secured near the top of said frame and adapted to feed nails into said chute, substantially as shown and described.

4. In a nail-distributing machine, a frame adapted to fit against the front of the workman's body, its top to the side of, and just under, his chin, straps adapted to pass around said workman's body and hold said frame in place, a hopper with a spring-actuated bottom secured near the top of said frame, a funnel secured to said frame under said hopper, a curved cylindrical slotted chute connected with the smaller end of said funnel and secured to said frame, the lower end of said chute convenient to said workman's hand and provided with a spring-door, and a lever secured to said frame near the lower end of said chute and adapted to open the outlet to said hopper, substantially as shown and described.

5. A nail-distributing machine consisting of a frame adapted to be secured in front of the operator, a hopper provided with a spring-actuated outlet and secured near the top of said frame, a funnel placed under said hopper, a curved cylindrical slotted chute connected with the smaller end of said funnel and secured to said frame, said chute provided at its lower end with a spring-door, and a lever mounted on said frame near the lower end of said chute and adapted to open the outlet of said hopper, substantially as shown and described.

In testimony whereof we hereto affix our signatures in the presence of two witnesses.

ROGER DINESON.
PETER DINESON.

Witnesses:
ABRICH DE VRIES,
PETER DOYLE.