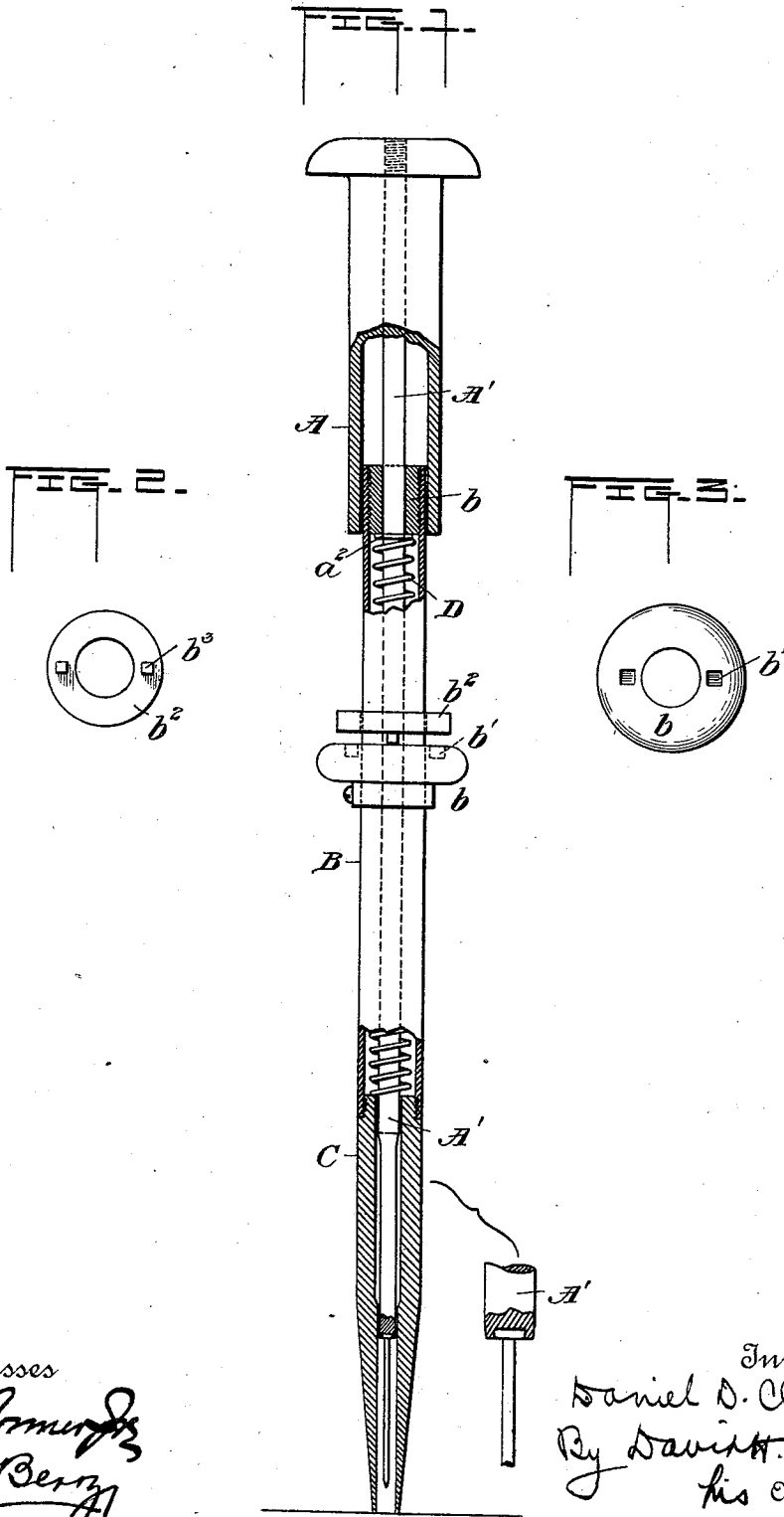


(No Model.)

D. D. CLARK.
NAIL DRIVER.

No. 541,038.

Patented June 11, 1895.



Witnesses
T. H. [Signature]
J. D. Berry

Inventor
Daniel D. Clark
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UNITED STATES PATENT OFFICE.

DANIEL D. CLARK, OF NEW LONDON, CONNECTICUT, ASSIGNOR OF TWO-THIRDS TO ISRAEL F. BROWN, OF SAME PLACE.

NAIL-DRIVER.

SPECIFICATION forming part of Letters Patent No. 541,038, dated June 11, 1895.

Application filed February 9, 1895. Serial No. 537,774. (No model.)

To all whom it may concern:

Be it known that I, DANIEL D. CLARK, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Nail-Drivers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to devices for driving nails.

The object of the invention is to produce a nail driving device of such construction that nails, brads, tacks, or the like can be driven or set without handling, and whereby bending of the same during driving or setting is avoided.

Further the object of the invention is to produce a nail driving device capable of ready use in positions where it is impossible to use a hammer or similar tool, and, finally, the object of the invention is to produce a nail driving device so constructed as to be capable of adjustment adapting it for driving a nail or the like into place to leave the head thereof flush with the surface of the body into which it is driven, or to force the head below the surface.

With these objects in view the invention consists of a nail driver comprising movable sections, a driving pin, and two collars provided respectively with projections and indentations, capable of independent movement and adapted to regulate the movement of the driving pin.

The invention consists further in various novel details of construction whereby the object of the invention is attained.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a central longitudinal sectional view of a nail driving device constructed in accordance with my invention. Fig. 2 is an illustration of a loose collar forming a portion of the means for regulating the movement of the driving pin, and Fig. 3 is a plan view of a fixed portion with which the loose collar comes in contact.

The main body of the device is composed of the three hollow portions designated in the drawings by the letters A, B, and C, respectively. The upper portion A is provided at its top with a cap or plate a , which may be formed with or attached to the same, and which forms a suitable rest for the hand in using the device. The portion A is of a size to receive the upper end of the middle portion B, and to allow the two parts to telescope.

Attached to the upper portion A, and depending therefrom, is a rod A' , which constitutes the driving pin of the device. The driving pin is countersunk at its lower end a' , to receive the head of a nail or the like to be seated, and to prevent the head from coming in contact with the inner face of the portion C. The lower end of the driving pin is preferably magnetized, facilitating the picking up of nails, brads, tacks, or the like, without handling.

In the middle portion B, at the upper end thereof, is a plug b , firmly attached by screw threads or otherwise, and provided with a central opening receiving the driving pin A' .

The lower portion C of the body of the driver, projects upward a short distance into the lower end of the portion B, and its upper end forms a bearing for one end of a coil spring D, the other end of which abuts against the annular flange a^2 , attached to or formed with the driving pin. The opening in the lower end of the portion C is of a diameter to hold the nail or the like to be driven, straight, while being seated.

On the outer face of the middle portion B is a fixed collar b , provided in its upper face with openings or indentations b' , and above this fixed collar is a loose collar b^2 provided on its lower face with projections b^3 adapted to enter the openings or indentations in the collar b . The collar b^2 is adapted to receive the impact of the lower end of the upper portion A of the device, and therefore the positions of the two collars regulate the downward stroke of the driving pin. The height of the projections b^3 on the loose collar b^2 corresponds to the depth it is desired to countersink the head of the nail, brad or the like to be driven. Thus when a nail or brad is to be

seated to leave its head flush with the surface of the body into which it is to be driven, the loose collar is turned to remove the projections b^3 from the indentations in the fixed collar b . In this position of the parts, the limit of the downward movement of the driving pin is to bring the lower end of the driving pin level with the lower end of the portion C. As the lower end of the portion C rests, in the operation of the device, on the surface into which the nail or the like is to be driven, the nail or the like will be driven to leave its head flush with the surface of the body. By turning the loose collar to cause the projections b^3 to enter the indentations b' , the driving pin is allowed to project when forced down, a short distance below the lower end of the portion C, in order to force the head of a nail or brad a short distance below the surface of the body into which it is driven.

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

1. A device for driving nails, brads, tacks, or the like, comprising movable sections, a driving pin, and two collars provided respectively with projections and indentations, capable of independent movement, and adapted

to govern the movement of the driving pin, substantially as described.

2. A device for driving nails, brads, tacks, or the like, comprising movable hollow sections forming the body, a driving pin attached to one of the sections, and a fixed and a loose collar provided respectively with indentations and projections attached to a section adjacent to that to which the driving pin is attached and adapted to govern the movement of the driving pin, substantially as described.

3. A device for driving nails, brads, tacks, and the like comprising independently movable hollow sections, a driving pin having a counter-sunk end, and attached to one of the sections, a coil spring interposed between the driving pin and one of the sections, and two collars provided respectively with projections and indentations and adapted to govern the movement of the driving pin, substantially as described.

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

DANIEL D. CLARK.

Witnesses:

CLAYTON B. SMITH,
C. W. BUTLER.