J. L. SCHMIDT.

NAIL SET.

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**1,038,207.** Patented Sept. 10, 1912.

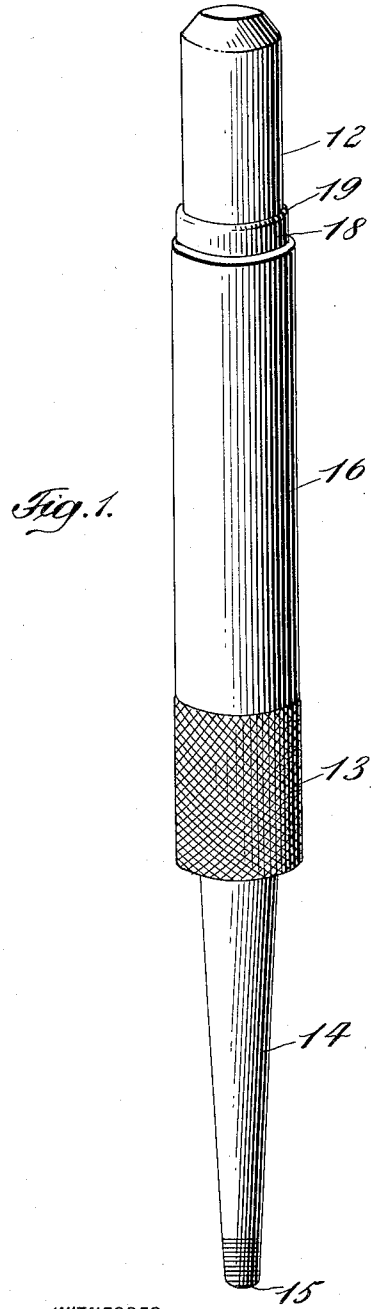


Fig. 1.

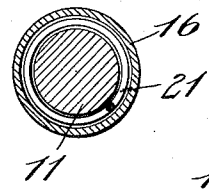


Fig. 3.

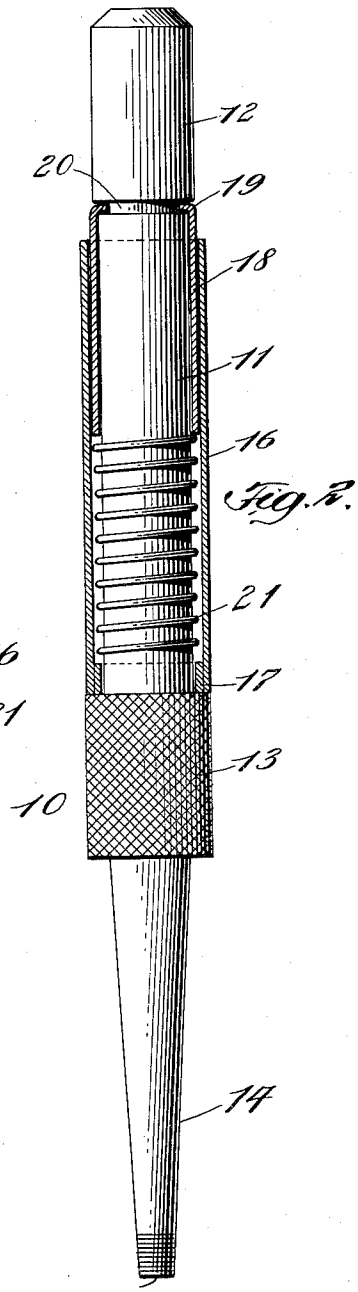


Fig. 2.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN L. SCHMIDT, OF JEFFERSONVILLE, NEW YORK.

## NAIL-SET.

1,038,207. Specification of Letters Patent. Patented Sept. 10, 1912.

Application filed March 25, 1910. Serial No. 551,454.

*To all whom it may concern:*

Be it known that I, JOHN L. SCHMIDT, a citizen of the United States, and a resident of Jeffersonville, county of Sullivan, and State of New York, have invented certain new and useful Improvements in Nail-Sets, of which the following is a full, clear, and exact description.

This invention relates more particularly to a nail set having cushioning means as a shock absorber.

The primary object of the invention is to provide a simple and efficient device in which the handle portion is so held that it will move relatively with respect to the main body of the device, and which is yieldingly connected in such a way that the impact of the hammer against the body of the device will not be transferred to the hand so that said device may be used continuously without affecting or otherwise injuring the hand while in use.

Another object of the invention is to provide a device in which the parts may be readily constructed and assembled in such a way that the device will not be expensive to manufacture.

A further object of the invention is to provide a device in which the body or main portion thereof may be used in the usual manner, and which also may be provided with a magnetic end so that the device will not slip from the head or body of the nail.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claim at the end of the description.

In the drawings, Figure 1 is an enlarged perspective view of one form of device embodying my invention. Fig. 2 is an elevation, partly in section, of the device showing the interior thereof; and Fig. 3 is a transverse sectional plan.

The device has a body portion 10 a part of which is reduced, as at 11, to provide a stem portion, and at the outer end of the stem portion is a hammer or striking part 12 to receive the impact of the hammer when the device is in use, and said body portion has an enlarged part 13 which may be milled or otherwise provided with a rough surface to grasp the device. A set portion 14 projects from the part 13 of the body and said set portion 14 may be tapering and the end 15 may be magnetized or otherwise provided with a separate magnetic piece so that the said device will engage and hold to the nail and not slip therefrom as is very often the case where a piece of work is to be finished and the nails are to be driven in below the surface. In such cases the nail head projects out beyond the surface in order that no hammer marks will appear on the article being made, and the magnetic end of the device serves to hold the same from slipping from the head of the nail and thereby injuring or marking the surface of the article.

A sleeve 16 of substantially the same diameter as the part 13 is arranged around the stem portion 11, and this sleeve portion has a collar or thimble portion 17 at one end thereof, and at the other end fits about a sleeve or thimble 18. The thimble or member 18 has an inturned portion 19 and this portion fits into a groove 20 under the hammer portion 12, so that it may be rotated thereon, if desired, but not move lengthwise of the stem 11. Interposed between the inner end of the member 18 and the part 17 is a spring 21 which is arranged around the stem 11. The coil spring 21 has its upper end engaging the lower edge of the thimble 18 that is locked on the body member by its flange. The lower end of the spring abuts the collar 17 that is locked to the inner face of the sleeve 16. Therefore the tension of the spring will force the sleeve 16 downwardly until the lower end of the sleeve is brought into engagement with the fixed portion 13 of the body member. As will be seen when the sleeve or member 16 is grasped by the hand and the end of the part 12 struck by a hammer, the body portion of the device will be forced relatively to the handle portion, and this relative movement will be against the tension of the spring 21 so that the shock of the blow will not be felt to any extent by the hand. By this means, the device may be used for a long time without at all tiring or injuriously affecting the hand in any way.

From the foregoing, it will be seen that a simple and efficient device is provided in which a spring or similar means is employed for taking up the shock due to the impact of the hammer against one end of the device; that said device may be made to have a better hold against the head of the

nail by magnetic or similar means; that said device may be readily made and assembled so as not to be expensive; and that said device, if the spring should break or the part 16 become useless, may be used in the ordinary way.

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

A nail set comprising a body having an enlargement at its lower portion from which projects a tapering end, the body having an annular slot near its upper end, a sleeve surrounding the body and provided with an internal collar fast on its lower end that slides on the body, a thimble surrounding the body and flanged at the upper end to engage said annular slot and lying inside of the sleeve and a coil spring surrounding the body and engaging the lower end of said thimble, the other end of the spring pressing the sleeve collar against said enlargement on the body to yieldingly hold the sleeve in such position and permit it to slide upward on the body when the spring is compressed.

This specification signed and witnessed this 19th day of March A. D. 1910.

JOHN L. SCHMIDT.

Witnesses:

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