

UNITED STATES PATENT OFFICE

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NAIL DRIVER

Frank J. Baird, San Francisco, Calif.

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1 Claim. (Cl. 1—47)

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The present invention relates to a new and improved article of manufacture or tool for driving nails, brads, screws, or the like, into remote or virtually inaccessible places, and comprises a tube adapted to contain a nail, or the like, and hold the same at a remote or inaccessible spot into which said nail is to be driven, and operates in conjunction with a magnetized ram slidably mounted for longitudinal reciprocation within said tube and adapted normally to hold, then drive, by repeated impacts of said ram, said nail or the like from one end of said tube and into said surface, together with a magnetic handle on said tube adapted normally to be magnetically attracted by a magnetized handle on said ram, whereby the several parts of the tool may be held in assembled relation when not in use.

The primary object of the present invention is to provide a new and improved article comprising a nail driver having improved means adapted to hold a nail or the like, to be driven, against a remote or virtually inaccessible location, such, for instance, as a high ceiling, or within a narrow space or pocket.

Another object is to provide a new and improved device of the character set forth having improved means adapted normally to hold the separate parts thereof in assembled relation when not in use.

A further object is to provide an improved device of the type described having a greatly simplified and economically produced construction and a maximum efficiency.

The improvement comprises the device disclosed in the drawings forming a part of the present application, and in which—

Figure 1 is a broken, or longitudinally contracted elevation of the device;

Figure 2 is a partly broken or contracted longitudinal section of the assembled device, when not in use;

Figure 3 is a similar sectional view, disclosing one mode of application of the device; and

Figure 4 is an elevation of the left hand end of Figure 1.

Referring to the drawings, the numeral 1 is used to designate in general a tube of nonmagnetic material, such as brass or the like, having a centrally apertured or bored magnetically attracted handle 2 on one end thereof.

Slidably mounted for longitudinal movement through the tube 1 and handle 2 thereon, and of greater length than the combined lengths of said tube and handle, is a magnetized ram 3 having a magnetized handle 4 thereon, preferably adjacent the handle end of the tube 1, and adapted to move the ram 3 longitudinally within

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said tube 1 until the opposite end of said ram projects slightly beyond the opposite end of said tube, as fully disclosed in Figures 1 and 2 of the drawings.

The overall length of the device preferably is sufficient to reach remote or virtually inaccessible places, such, for instance, as a high ceiling, restricted space, or the inner end of a narrow pocket.

In operation, a nail 6, brad, screw, or the like to be driven, is inserted into the tube 1 at the end opposite the handle 2 thereon, the ram 3 being retracted or retracted within said tube a distance approximately equal to the length of a nail to be driven.

The magnetized ram 3 normally retains the nail 6 within the end of the tube 1 until the end of said tube is placed against a surface, as at 5, into which the nail is to be driven. If the nail 6 is to be driven into the bottom of a narrow space or well, not shown, the magnetic attraction of the ram 3 will retain said nail within the tube against the attraction of gravity, until repeated impacts from the ram, reciprocated longitudinally within said tube 1, drives the nail 6 or the like fully into the surface intended.

The handle 2 of the tube 1 is constructed of any magnetic material susceptible to magnetic attraction. One advantage of this feature is that normally the device will be held in assembled relation when not in use, due to magnetic attraction of the magnetized handle 4 for the magnetic handle 2 whereby the assembly constantly is held available for instant use, when required.

Having described my invention, I claim:

A nail driver comprising a nonmagnetic tube adapted to contain a nail or the like to be driven; a magnetized ram slidably mounted within said tube and adapted to drive a nail or the like held therein beyond one end of said tube; a magnetically attracted handle mounted upon the opposite end of said tube; and a magnetized handle on the end of said ram adjacent the handle on said tube and adapted to magnetically hold said handles in contact and said ram fully within said tube.

FRANK J. BAIRD.

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The following references are of record in the file of this patent:

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