July 6, 1926. 1,591,239

P. SCHOLTISECK

NAIL MAKING MACHINE

Filed May 7, 1925

Fig.1.

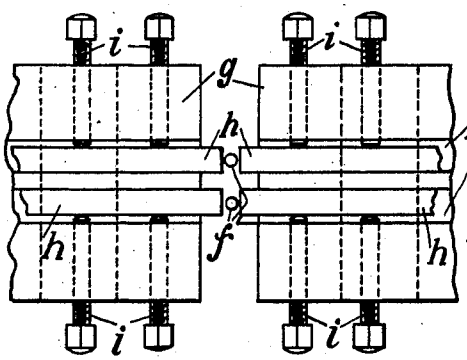


Fig.2.

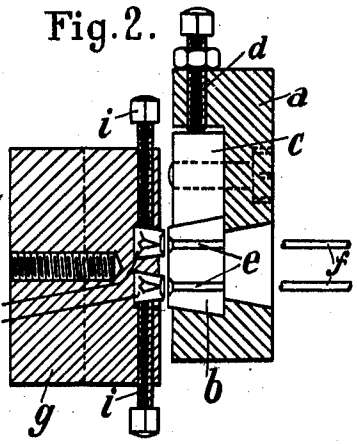


Fig.3.

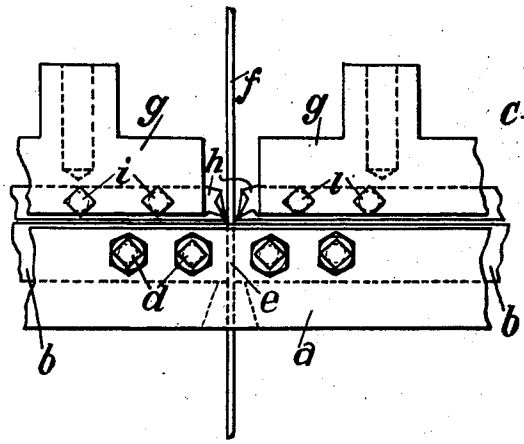
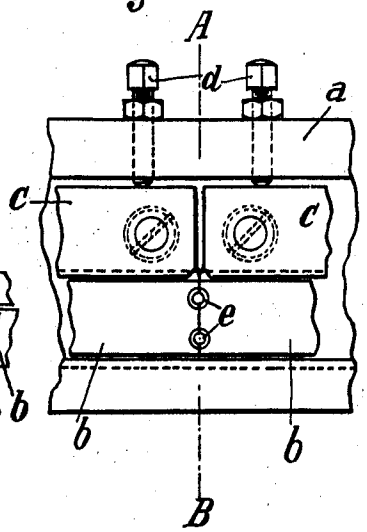


Fig.4.



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UNITED STATES PATENT OFFICE.

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NAIL-MAKING MACHINE.

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My invention has reference to improvements in machines for making nails or tacks, and it relates more specifically to machines of this character in which a blank in the form of a length of wire is fed to the several tools to be shaped into the finished article, and the particular object of the invention is to provide means whereby a plurality of wire blanks are operated upon simultaneously, whereby the efficiency and the output of the machine is greatly enhanced over the prior machines in which, as far as I am aware, only one wire blank is operated upon at a time.

Although I have shown in the illustrated embodiment only two wire working instrumentalities, it must be understood that I may use, obviously, more than two, the units being constructed and operating in the manner now to be described in detail in connection with the accompanying drawing, in which Fig. 1 is a front elevation of the cutter assembly proper; Fig. 2 is a vertical section on line A—B of Fig. 4; Fig. 3 is a plan corresponding to Fig. 1, and Fig. 4 is a rear elevation of the gripping block holder with the gripper blocks.

The complemental gripping blocks *b* are firmly clampable in the stationary machine head *a* by means of the blocks *c* and the screws *d*. According to my invention these blocks *b* are provided with a plurality of feed guides *e* for the introduction of the wire blanks *f*. As shown by way of example only two such guides, arranged spacedly one above the other are used here to illustrate the idea; but I may of course use more than two, and may also arrange the several guides alongside of one another. Immediately back of the gripping block holder or head *a* are mounted the tool holders *g* which together with the cutting tools *h* can readily be displaced relative to the wire stock.

The tool holders *g* present for each wire blank *f* a pair of tools *h*, arranged on opposite sides of the line of feed of each blank, which tools are slidably and adjustably mounted in guideways *h'* in the holders *g*. The guideways *h'* in each holder *g* are separated from each other by an intervening division wall, and the cutters *h* are adjustable in said guideways, one or more set screws *i* being provided for independently securing each cutter in adjusted position. The guideways *h'* open through the adjacent ends of the holders *g*, beyond which the cutting ends of the cutters project to sever the wires *f*, and they also open through the front faces of the holders *g*, i. e., the faces thereof lying immediately in rear of the head *a* and gripping blocks *c*. By this construction and mode of mounting the cutters *h*, the cutters may not only be independently adjusted with greater ease and convenience, as may be required for securing a nicety of adjustment after the cutters have become more or less dulled, but the independent adjustment of each cutter avoids the necessity of setting or adjusting a plurality of cutters at a time, with known inconveniences and disadvantages. Furthermore, by providing guideways *h'*, which open both through the working ends and faces of the cutter holders, the cutters may be mounted directly in the holder without the use of an auxiliary holding sleeve or other part, and machining of the cutter holders reduced to the minimum, so that the cost of construction of the cutter holders may be materially reduced. This construction further adapts the cutters to be either bodily slipped into the guideways from the front of each cutter head, or slipped in endwise from either end of a cutter head, as desired, and as may be found most convenient in the assemblage or disassemblage of the parts.

The described arrangement not only enables several wire blanks to be operated upon at the same time, but the cutters also can be handled independently of each other for grinding and other purposes.

What I claim is:—

In a wire nail making machine, the combination with a stationary machine member, and a pair of wire gripping blocks carried by said member, said blocks presenting between them a plurality of wire feed guides disposed in different horizontal planes, of a cutting mechanism comprising a pair of suitably actuated tool holders each comprising an oblong rectangular block each provided with a plurality of separate grooved guide-

ways formed directly therein and equal in number to the wire feed guides in the wire gripping blocks, said guideways opening through the front faces and at least the opposed ends of said tool holder blocks, cutters mounted in said grooved guideways, the cutters of the holders being arranged in working pairs, each cutter of each working pair being independently adjustable in the guideway in its holder block, and means for independently fastening each cutter in adjusted position.

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