

Oct. 25, 1927.

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MARKING DIE

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**Fig. 1.**

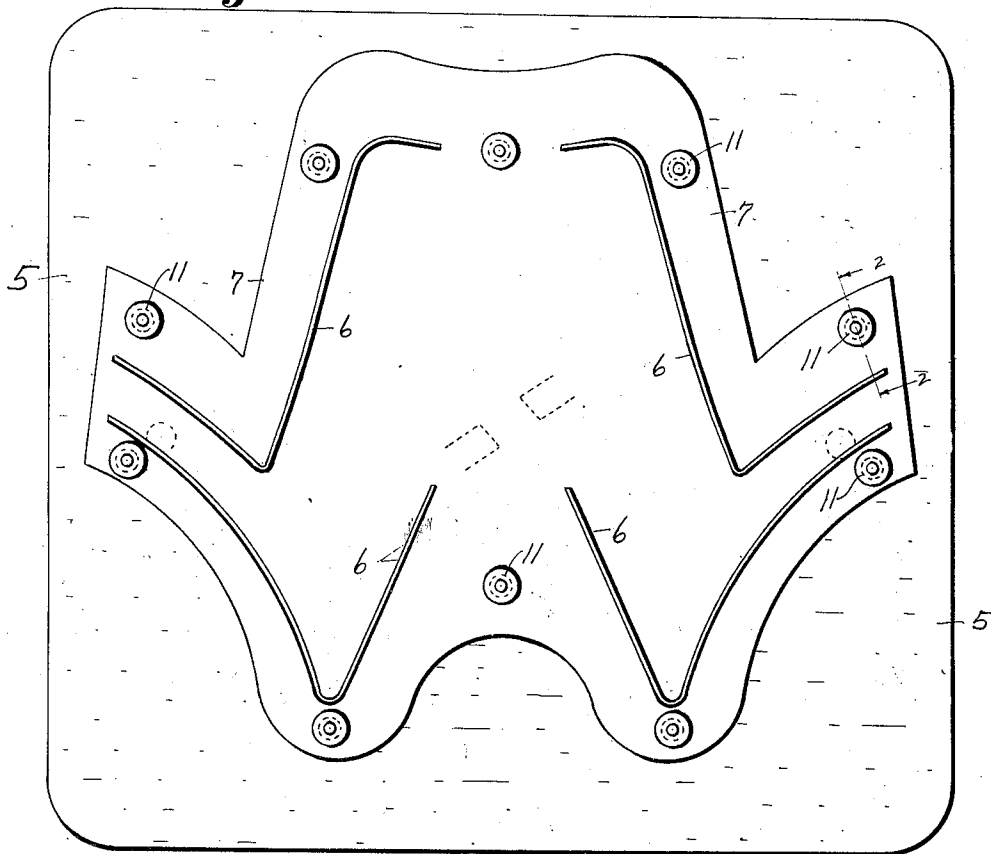


**Fig. 2.**

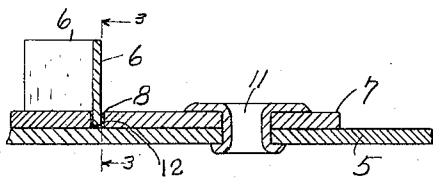
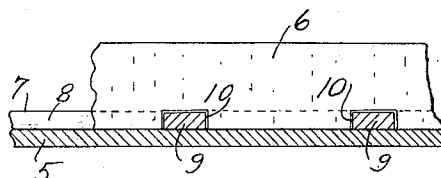


**Fig. 3.**



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# UNITED STATES PATENT OFFICE.

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## MARKING DIE.

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This invention relates to improvements in marking dies.

It is the object of the invention to provide a novel and simplified type of marking die which can be economically manufactured and which will operate as effectively as the more expensive marking dies heretofore used. The particular die herein disclosed is used in marking shoe uppers to indicate lines of stitching to be made subsequently thereon. The devices heretofore commonly used for this purpose have been milled from solid brass and have been comparatively very expensive. It is my purpose to provide at a greatly reduced cost an equally satisfactory die which can be assembled on short notice from readily obtainable materials and without the use of expensive machinery.

In the drawings:

Figure 1 is a plan view of a die embodying this invention.

Figure 2 is a detail view taken on the section indicated at 2—2 in Figure 1.

Figure 3 is a detail view taken on the section indicated at 3—3 in Figure 2.

Like parts are identified by the same reference characters throughout the several views.

The mounting plate 5 of the die has heretofore had the knives or ridge 6 formed integrally therewith. In accordance with the present invention, however, the knives 6 are made from narrow strips of sheet metal bent to the proper form and rigidly supported from the mounting plate to have the effect of an integral structure at only a small portion of the cost thereof. It will be understood that the knives 6 do not cut the work in this particular embodiment of the invention, but merely operate to deposit a marking fluid or to make a crease, or both, upon the work to designate a line of stitching for a subsequent operation.

In order to fix the knives 6 on edge on the surface of the mounting plate 5 with the necessary rigidity, I make use of an anchorage plate 7 in which I cut slots 8 of just the width of the strips of metal which are to be used to make the knives 6. These slots may, if desired, be continuous throughout the length of any given knife; but in order to provide for greater strength, I find it convenient in some instances to make the slots discontinuous by leaving narrow tongues 9 of metal integrally connecting the

portions of the anchorage plate 7 upon either side of the path of the knives. Said tongues are shown in Figure 3 which also shows how the knife 6 is notched at 10 to receive said tongues.

When the anchorage plate has been suitably slotted, the narrow strip of brass or iron which is to be used as a knife is introduced into the slot, being readily shaped to conform to the predetermined course of the slot as clearly shown in the drawings. The introduction of the knife preferably occurs prior to the attachment of the anchorage plate 7 to the mounting plate 5.

The knife is now soldered to the anchorage plate and the anchorage plate secured by rivets 11 to the mounting plate.

By referring to Figure 2 it will be noted that the mounting plate 5 and anchorage plate 7 comprise a unitary assembly and the slot 8, which is cut completely through the anchorage plate, is backed up by the uncut wall of the mounting plate to provide a narrow and shallow channel in which the solder indicated at 12 securely and rigidly anchors the upstanding knife 6. When the device is in use, all pressures are transmitted directly from the knife to the mounting or backing plate 5 and it remains for the anchorage plate 7 only to fix the position of the knife erect with reference to the mounting plate and in contact with its surface.

While I have illustrated a double die for a particular purpose and while I have described particular metals as being adapted for use in the manufacture of dies for this purpose, it will be understood that I do not wish to be limited, except as expressly indicated in the following claims, to these details of construction.

I claim:

1. In a device of the character described, the combination with a slotted anchorage plate and a mounting plate presenting uncut portions beneath said slots, said plates being secured together, of knives fixed on edge in said slots by means independent of the connection between the plates and backed by said mounting plate.

2. In a device of the character described, the combination with an anchorage plate and a mounting plate fixed together, said anchorage plate being slotted and said mounting plate being arranged to present its surface at the back of said slot, of a knife sol-

dered to said anchorage plate within said slot and abutting the mounting plate to receive pressure therefrom.

3. In a device of the character described, the combination with an anchorage plate and a mounting plate fixed together by means extending through both plates to comprise a unitary structure, said anchorage plate being slotted and said mounting plate presenting its surface behind said slot, of a knife arranged on edge in abutment with said mounting plate and projecting through said slot, together with means independent of the connections between the plates securing said knife in said position.

4. In a device of the character described, the combination with a mounting plate, of

an anchorage plate secured thereto and provided with a discontinuous slot interrupted by tongues integrally connecting portions of said anchorage plate upon either side of the course of said slot, and a knife fitted to a plurality of portions of said discontinuous slot and fixed on edge therein in abutment with said mounting plate, said knife being notched to receive said tongues.

5. The combination with an anchorage plate provided with a slot, of a knife fitted on edge within said slot and soldered to said anchorage plate, and a mounting plate provided with unbroken portions opposite said slot and riveted to said anchorage plate in abutment with the edge of said knife.

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