

No. 689,331.

Patented Dec. 17, 1901.

E. M. STONE.
DISAPPEARING CUTTING DEVICE.

(Application filed Dec. 18, 1900.)

(No Model.)

Fig. 1.

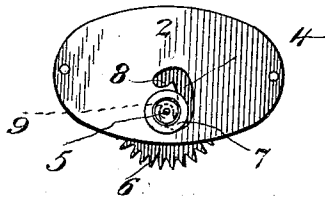


Fig. 2.

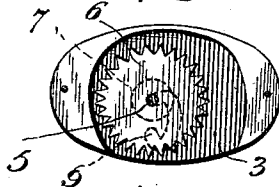
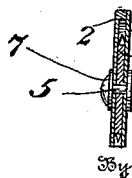


Fig. 3.



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UNITED STATES PATENT OFFICE.

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DISAPPEARING CUTTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 689,331, dated December 17, 1901.

Application filed December 18, 1900. Serial No. 40,332. (No model.)

To all whom it may concern:

Be it known that I, EDWARD M. STONE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Disappearing Cutting Devices; 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.

My invention relates to improvements in disappearing marking and cutting devices, such as are used by tailors and others for marking and cutting out patterns, ripping, and for other purposes; and it consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter described and specifically claimed.

The object of my invention is the production of a disappearing-tool which can be conveniently carried in the pocket without injury to the garments or to the operator and which when desired can be readily brought into operative condition and the cutting or marking device thereof held firmly in such condition during the cutting-out or marking operation without liability of said device slipping or moving, and when desired can be readily returned to its position within the case of the tool and be held in such position without liability of accidentally resuming an operative position.

In the accompanying drawings, Figure 1 is a side elevation of a tracer constructed in accordance with my invention. Fig. 2 is a similar view with one of the sides of the casing removed, with the tracing-wheel in a concealed position. Fig. 3 is a vertical transverse section through the same.

In the accompanying drawings, Fig. 1 represents a tracer such as is employed by tailors and others in marking out patterns. This device consists of a suitably-shaped case composed, preferably, of two sides 2 and 3, held together by rivets or other suitable means, as clearly shown in Fig. 1. Each of the sides is provided with a substantially C-shaped slot 4, in which works a shaft 5, carrying a marking or cutting tool 6, the outer ends of the shaft being provided with large heads 7, by means of which the movement of the

shaft carrying the marking or cutting device is facilitated by the fingers of the operator. By providing the casing with C-shaped slots a positive seat for the shaft is secured at each end of its movement, as at 8 and 9, so that no matter in which position the tracing or marking tool is in it will be prevented from accidentally changing said position and will require manipulation on the part of the operator in order to change it from an exposed or operative position to a concealed or inoperative position. I have shown and described the slot as being formed in both members of the casing, but do not wish to limit my invention to this exact construction and arrangement. I have also shown the cutting or marking tool 6 as provided with teeth; but it is obvious that it might be a plain wheel or disk. The tool 6 may be made of any suitable material, as chalk, graphite, metal or any other suitable material which is capable of either cutting or marking, and the cutting-tool proper may be of any suitable shape, as triangular, circular, or rectangular.

The casing may be constructed of any suitable material, as metal, wood, rubber, celluloid, or composition.

It will be observed that when the cutting-tool proper is in an exposed or operative condition the greater the pressure that is brought to bear upon the same the more firmly will the said tool be held in position.

I have only illustrated one application of my invention; but it might be further illustrated, any form of moving member being employed which would be found useful. The illustration given, however, is sufficient to demonstrate the utility and practicability of my invention to different devices employed by tailors and others for marking and cutting.

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

1. A tracing or cutting device comprising a casing provided with oppositely-arranged slots in its two sides, the said slots being formed with offset bearings at each end, a cutting-disk inclosed in the casing and having a shaft extending out upon either side thereof, its ends engaging the said opposing slots, the structure being such that the disk-shaft can find a bearing at the end of the said slots

so that pressure can be placed upon the casing while the disk travels along over the material to be cut, substantially as described.

2. A tracing or cutting device comprising
5 an inclosing casing having oppositely-arranged slots formed in its sides, the ends of the said slots being turned to one side and back toward each other for forming bearings at each end for the running cutter, a disk or
10 cutter having a shaft extended on either side thereof so as to engage the said bearings at the ends of the slots whereby any desired degree of pressure may be brought to bear upon the running cutter as it travels over the ma-
15 terial to be cut, substantially as described.

3. A tracing or cutting device comprising a casing made up of side plates of corresponding shapes, a spacing-piece interposed between the edges of said side plates and extending

almost around the device, a cut-away por- 20
tion being formed therein on one side of the casing to accommodate the tracer or cutter, the said side plates being also formed with oppositely-arranged corresponding slots, hav-
25 ing their ends bent back to form bearing-recesses, a disk tracer or cutter mounted in said casing and having a shaft extending on each side thereof, the said shaft engaging the bearings at one end or the other end of each slot for holding the tracer positively in opera- 30
tive or inoperative position, substantially as described.

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

EDWARD M. STONE.

Witnesses:

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