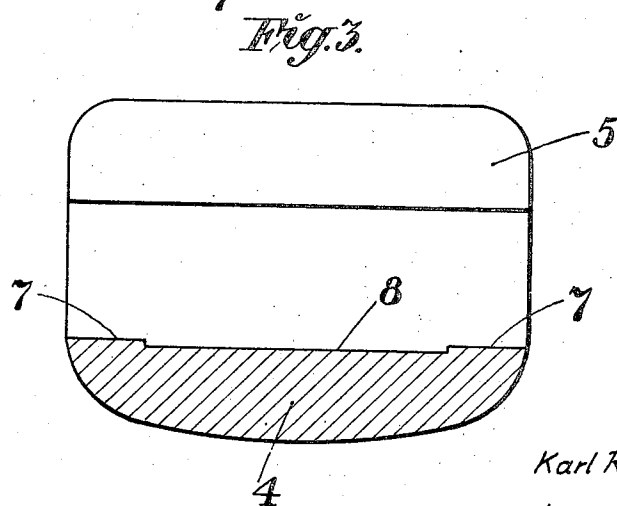
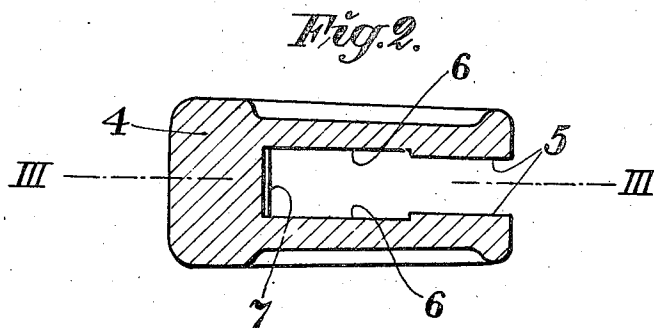
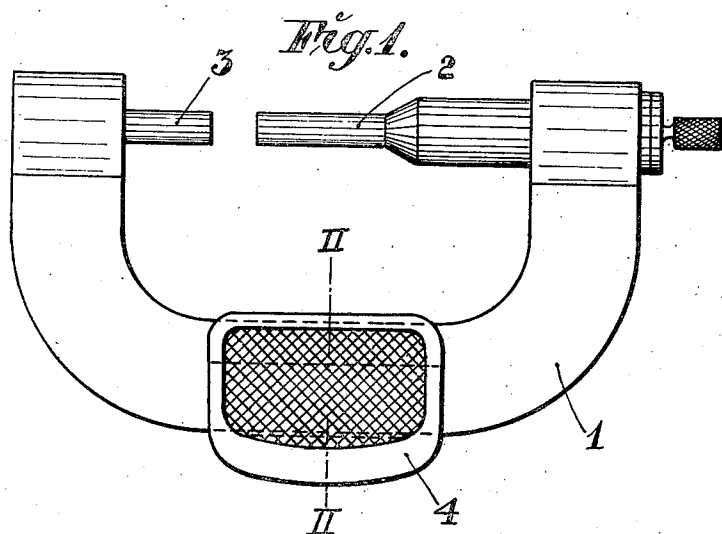


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INSULATING HANDLE FOR MICROMETERS, CALIPER GAUGES,
AND SIMILAR MEASURING TOOLS
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INSULATING HANDLE FOR MICROMETERS,
CALIPER GAUGES, AND SIMILAR MEASURING TOOLS

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1 Claim. (Cl. 16—114)

The present invention relates to a handle for micrometers, caliper gauges, and similar measuring tools, for the purpose of insulating such tools from the warmth of the hand when they are used. The insulating handles heretofore used for this purpose usually consist of plates of leather, wood, Bakelite, or similar heat-insulating materials, which are glued or secured by screws to that portion of the measuring tool which is usually gripped when the tool is used. These old insulating devices have the disadvantage, however, that if it is desired, for instance, to repair the measuring tool, and if for this purpose the tool must be set in a vice, the handles must first be removed, because otherwise the insulating plates would be damaged, and afterwards they must again be secured in place, which operation is difficult and time-wasting.

The main purpose of the present invention is to eliminate this inconvenience. This purpose is attained according to the invention by the heat-insulating handle being made in the shape of a spring clamp of heat-insulating material and preferably having a U-shaped cross-section, said clamp being adapted to be pushed on to that portion of the measuring tool which is gripped by the hand and to be retained on the tool solely due to its own spring action. This heat-insulating handle may therefore be easily and rapidly removed and again put in its place, and it may be placed at different points of the measuring tool where it is most suitable to grasp the tool for performing different measuring operations.

The spring clamp may suitably be provided on its inside with projections, protruding ridges or the like which bear against the measuring tool when the clamp is pushed on to the tool, so that heat-insulating air spaces are formed between the measuring tool and the remainder of the inside of the clamp. In this way the heat insulating capacity of the device is increased considerably.

In the accompanying drawing a constructional form of the invention is illustrated by way of example. Fig. 1 shows a micrometer provided with an insulating handle according to the invention. Fig. 2 is a cross-section to a larger scale of the insulating handle on the line II—II in Fig. 1, and Fig. 3 is a section on the line III—III in Fig. 2.

The micrometer shown consists in the usual manner of a frame 1, in one shank of which the usual micrometer screw 2 is screwed, and in the other shank of which the anvil 3 is secured. The insulating handle consists of a clamp 4 which has a U-shaped cross-section and which

is made of ebonite, Bakelite, or other suitable heat-insulating material, and which is made elastic in such manner that when it is pushed on to the frame 1, it is retained on the latter solely owing to its spring action. The clamp may thus easily be attached to the frame 1 at the point where the operator finds it most convenient to grasp the tool for making a certain measuring operation, for instance, in a position closer to the screw 2, or closer to the anvil 3, than that shown in Fig. 1.

Owing to its shape the clamp 4 also surrounds the outer edge of the frame 1 which is directed towards the hand, and thus provides a better insulation than that obtained by means of the old arrangement with two insulating plates attached to opposite sides of the frame.

In order to increase the heat-insulating capacity of the clamp its shanks are provided on their inner faces at their free ends with protruding ridges 5 which bear against the frame 1 when the clamp is attached to the same. In this way heat-insulating air spaces are formed between the frame and the remainder of the inner faces of the shanks of the clamp, at 6 in Fig. 2. For the same purpose the back of the clamp is provided on its inner side at both ends with ridges 7 which bear against the outer edge of the frame 1 when the clamp is applied to the latter. By this arrangement a space is also formed between the clamp and the frame 1 between said two ridges 7, at 8 in Fig. 3, so that the heat-insulation is improved.

The constructional form above described and illustrated in the drawing is only to be regarded as an example, and it will be understood that its details may be modified in several ways without departing from the principle of the invention. If deemed necessary, two or more spring clamps 4 may, of course, be placed beside one another on the frame of the micrometer or caliper gauge.

I claim:

A detachable one-piece insulating handle for a measuring tool which has a portion to be grasped by the hand, said insulating handle enclosing said portion from opposite sides and retained thereon solely by spring action, said insulating handle comprising a single member of a heat-insulating resilient material having a recess therein the opposite walls of which are spaced apart a distance slightly less than the thickness of said portion, the said opposite walls of said recess in said member being provided with recesses forming heat-insulating air spaces between said member and said portion when the former is pushed on the latter.

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