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2,453,356

HATCHING DEVICE

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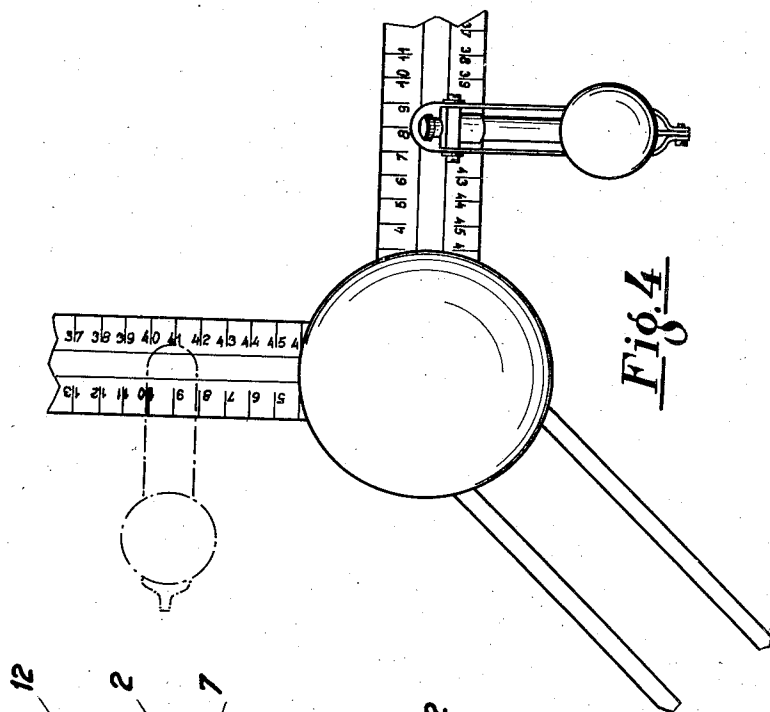


Fig. 4

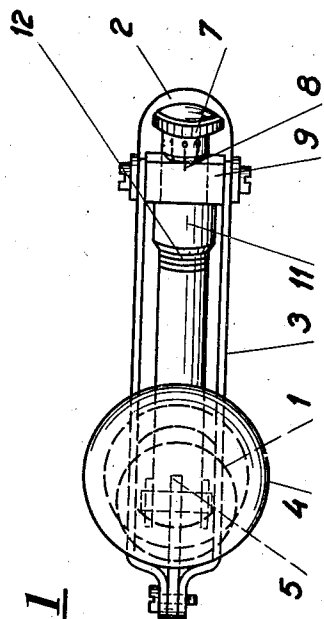


Fig. 1

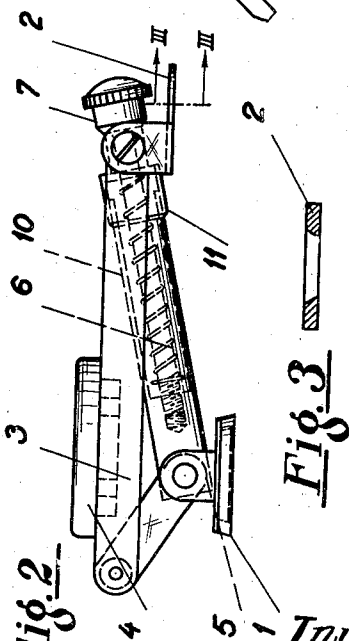


Fig. 2

Fig. 3

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UNITED STATES PATENT OFFICE

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HATCHING DEVICE

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1 Claim. (Cl. 33—110)

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The object of the present invention is an improved hatching device. This device is intended to control the motion of a rule parallel to itself by equal successive displacements. An important feature of the invention resides in that a movable foot adhering by friction on the surface of the drawing is linked with the rule by an extensible arm apt to be shortened by any predetermined amount by pressure on a control element.

The attached drawing represents by way of example an embodiment of the invention.

Fig. 1 is a plan view thereof.

Fig. 2 is an elevation view corresponding to Fig. 1.

Fig. 3 is a partial section in larger scale of a detail according to line III—III of Fig. 2.

Fig. 4 shows a mode of utilization of the described device.

In the embodiment shown, the device comprises a foot 1, intended to rest on the surface to be hatched, and a link 2 intended to be fixed on a movable rule. The link is connected to the foot by an articulated triangle the larger side of which is constituted by a control lever 3 carrying a press-button 4, the smaller side being formed by a rod 5 and the medium side comprising a micrometric screw 6 with graduated nut 7. This graduation cooperates with an index 8 traced on a strut 9 articulated on link 2 and in which the screw can slide axially. A spring located in a barrel 10 closed by a muff 11 applies the nut against the strut by letting the barrel slide in its muff. A graduation 12 traced on the barrel and cooperating with the free edge of the muff 11 indicates approximately the free run of the screw in the strut, whereas the micrometric graduation of the nut enables to complete the reading with accuracy.

The link 2 is U-shaped and dove-tailed, so as to be apt to fit into a boss adapted to that effect on the movable rule. The foot 1 carries a ring-shaped rubber washer covering a wide inscribed area for insuring the stability, but presenting only a small contacting surface for increasing the adherence.

The operation of this device is as follows:

One places the device as shown in Fig. 4, the link 2 plugged into a boss adapted on the rule, and the foot 1 resting on the drawing. One adjusts the nut in such a way that the graduation

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12 and that of the nut indicate the spacing which is to be obtained between adjacent hatching lines. For hatching, it suffices to press lightly on the rule with a few fingers of the left hand, whilst the palm or the thumb of this same hand operates the press-button 4 after the tracing of each hatching line. The pressure of the button causes the set-back of the rule by the play of lever 3 and rod 5, the foot being applied on the drawing and adhering momentarily thereto. When one releases the button, the relieved foot slides on the drawing, whereas the rule, still maintained under a slight pressure on the fingers, adheres in its turn on the drawing and so on.

15 The foot intended to rest on the drawing can present small points in such number and shape that they adhere to the surface of the drawing without sinking into it, and distributed over a large area in order to give stability.

20 What I claim is:

A hatching device for controlling the motion of a rule parallel to itself by equal successive displacements, comprising in combination a movable foot adapted to adhere by friction on the surface of a drawing, a removable support rigidly adaptable on the rule, an extensible arm linking said movable foot with said support, means for shortening said extensible arm by any predetermined amount by pressure thereon, said extensible arm comprising a threaded shaft slidable through said removable support and screwed by its one end in a sleeve hingedly carried by said foot and by its other end in a nut with micrometric scale, said nut acting on the one hand as rest abutment maintaining said arm in its extended position under the action of a spiral spring wound on said shaft, and enabling on the other hand, by suitable rotation, modifying the length of said arm to adjust the run of said movable foot and consequently the rule.

GEORGES BAER.

REFERENCES CITED

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

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Number	Name	Date
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