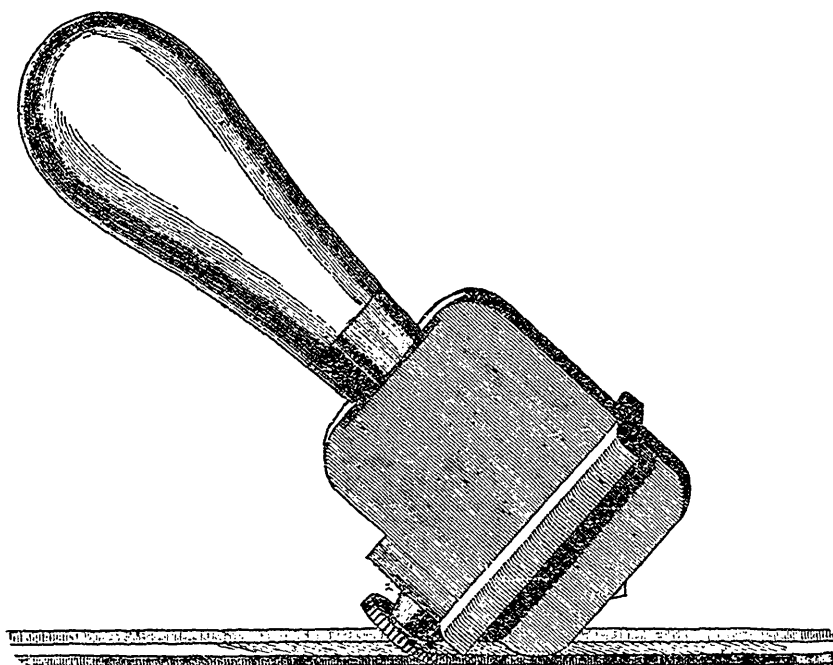


of rule or guide, and secured in its position by the thumb-screw H. B is the piece of steel in which the Diamond D is set, and is supported by the lower ledge and acted upon by the spring E, which is pressed by the washer C. F is a rod or screw, passing through handle G, and acting on washer C, which when screwed from you, gives the spring E more weight, as may be required.

No. 3 represents the Guide and mode of handling the Protector in marking while using the Guide and Protector in dressing. G is an inner rule and ledging, on which the inner guard of the Protector is made to slide. B is the outer rule on which the outer guard of the Protector works. D is

a bar which secures the Guide to the board E, connected by the parallel arms C.

INSTRUCTIONS WHICH MUST BE STRICTLY FOLLOWED.—In adjusting the Protector to the Guide, allow only the extreme point of the Diamond to project beyond the bottom of the rule, and secure the guard firmly in its position by the thumb-screw H. It is very necessary to be particular not to allow too much of the Diamond, or any part of its setting, to be exposed, as it allows it to go too much into the cavities, and wears away the setting that secures the Diamond in its position and causes it to come loose. The above cautions are necessary, as some may think that the more



Cut 1.—Protector on the outer side.

the Diamond is exposed the better it will work, when quite the contrary is the result, as only the extreme cutting edge of the Diamond marks the stone, and any more exposure of the Diamond is not only superfluous, but positively injurious. After strictly observing the above instructions, you will proceed to operate with the Protector by placing it between the rules of the Guide, with the thumb-screw H always towards you, pressing firmly on the board E of the Guide with the left hand or knee, as may be most convenient, and hold the upper arm C with the fingers of the left hand, and draw towards you as you make

the mark with the Diamond. In marking commence at the upper end of the Guide, pressing the Protector lightly with the fingers of the right hand, drawing it towards you, keeping the guard close to the ledging G, and in pushing it back again cant the Protector downwards, as you see in illustration No. 1, which prevents the Diamond from touching the stone, which you must be particular in not doing in its backward motion, as it is apt to injure the Diamond. The Diamond, being a valuable tool to the Miller, should be kept from being handled by curious or inexperienced persons. Millers once using Dickinson's Self-Adjustable