

H. H. LA VERCOMBE.
INSTRUMENT GUARD.
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1,065,054.

Patented June 17, 1913.

Fig. 1.

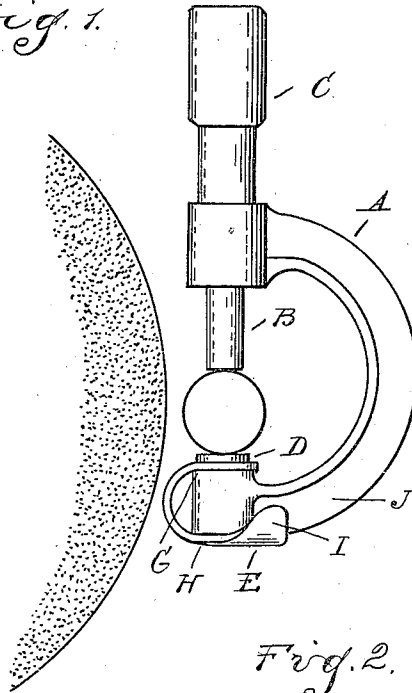
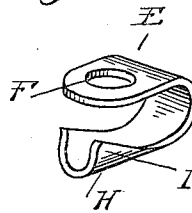


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

HARLEY H. LA VERCOMBE, OF HIGHLAND PARK, MICHIGAN, ASSIGNOR OF ONE-HALF
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INSTRUMENT-GUARD.

1,065,054.

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To all whom it may concern:

Be it known that I, HARLEY H. LA VERCOMBE, a citizen of the United States of America, residing at Highland Park, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Instrument-Guards, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to protect instruments, such, for instance, as micrometers from injury, and particularly where such instruments are used in proximity to a grinder wheel. For example, it frequently occurs that a shaft or other piece of work in a machine tool such as a lathe, is finished to an exact size by a grinding wheel and to determine the size during the progress of the work a micrometer is used, and the proximity of this instrument to the grinder is such that a slight carelessness on the part of the workman may bring it into contact with the grinder, and thus a valuable instrument is injured or spoiled.

With the present invention this difficulty is overcome by providing a guard which may be easily engaged with the instrument and without interference with its use, will effectually shield it from contact with the grinder or other cutter.

In the drawings,—Figure 1 is a side elevation of a micrometer in engagement with work adjacent to the grinder wheel and showing my improvement applied thereto; Fig. 2 is a perspective view of the guard.

With the construction as shown, the guard is applied to the anvil of the micrometer as this portion is most liable to injury, but it is obvious that it is equally applicable to other parts as well as to other instruments.

In detail, A is a micrometer of any suitable construction having the adjustable member B operated by the rotative handle C, and the anvil D in line with the member B.

E is the guard which as shown is formed of sheet metal preferably of a resilient character. This is preferably bent into U-shaped form, one leg of which has an aperture F adapted to fit over the circular end of the anvil, resting upon the shoulder G of the frame of the instrument. The other arm H of the U-shaped member passes be-

neath the frame and is preferably provided with upturned ears I embracing the web J with which the frames are usually provided. Thus the front of the anvil is completely guarded by the projecting part of the U and in case the instrument is accidentally moved in contact with the grinder wheel the guard alone will come in contact therewith. If through repeated contacts the guard is ground through, the two sections of the U will fall apart and another guard may be engaged with the instrument.

What I claim as my invention is:

1. The combination with a micrometer gage having an anvil and an anvil supporting frame, of a guard comprising a return bent sheet metal member having one leg apertured for engaging the anvil of the micrometer, the opposite leg embracing the base of the anvil supporting frame and the bend shielding said frame.

2. The combination with a micrometer gage having an anvil and an anvil supporting frame, of a guard comprising a return bent member of sheet metal apertured in one leg to be sleeved upon the anvil of the instrument, the opposite leg embracing the lower edge of the anvil supporting frame and provided with upstanding flanges embracing said frame.

3. The combination with a micrometer gage having an anvil and an anvil supporting frame, of a guard comprising a return bent member formed of resilient sheet metal, one leg being apertured to be sleeved upon the anvil and the opposite leg being engageable beneath the anvil supporting frame and having ears for embracing said frame.

4. A detachable instrument guard, comprising a single piece U-shaped shield of resilient material having one leg apertured to permit a portion of the instrument to project through, the opposite leg being provided with upstanding flanges for engaging a portion of the instrument and the bend portion projecting to protect the portion embraced.

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

HARLEY H. LA VERCOMBE.

Witnesses

JAMES P. BARRY,
DELBERT COLLINS.