No. 678,301.

Patented July 9, 1901.

G. F. LUCAS.

EMERY STEEL.

(Application filed Mar. 25, 1901.)

(No Model.)

Fig. 1.

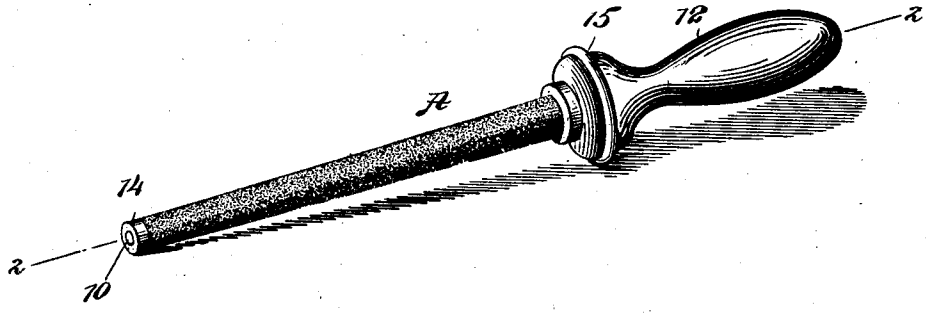
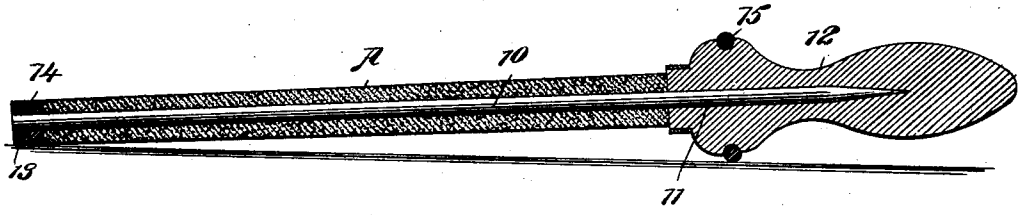


Fig. 2.



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GEORGE F. LUCAS, OF NEW YORK, N. Y.

EMERY-STEEL.

SPECIFICATION forming part of Letters Patent No. 678,301, dated July 9, 1901.

Application filed March 25, 1901. Serial No. 52,692. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. LUCAS, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Emery-Steel, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide an emery-steel with cushions so arranged that should the steel drop the cushions will engage with the surface on which the steel may fall, the steel throughout its length being held out of contact with such surface. Thus the force of a fall is broken, and the steel will not be fractured or damaged by such an accident.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a perspective view of the improved steel, and Fig. 2 is a longitudinal vertical section taken substantially on the line 2 2 of Fig. 1.

A represents the body of the steel. This body is made of emery or other similar material upon which a knife may be readily sharpened. The body is of the usual tapering form and is reinforced by a metal rod 10, which extends centrally and longitudinally through the body, the rear end 11 of the rod being secured in a handle 12 in any suitable manner. At the forward end 13 of the said rod 10 a cushion 14 is secured, which cushion engages with the outer end of the body. This cushion 14 is usually made of rubber, although any yielding or elastic material may be employed, and a second cushion 15 is located upon the handle 12, extending beyond the outer face thereof. The said cushion 15, as shown in Fig. 2, is usually in the form of a ring and is secured in a suitable groove made peripherally in the handle. This cushion 15 is shown as being quite close to the inner end of the body A, but its position may be changed. The form of the cushion may likewise be changed—as, for example, instead of using a ring-like cushion 15, as shown in the drawings, the cushioning of the handle may be accomplished by introducing into the handle at its periphery a series of pegs of rubber or a like material, which will extend beyond the outer face of the handle.

In operation should the steel drop the two cushions will engage with the surface upon which the steel falls and will hold the body throughout its length out of contact with the said surface, as is illustrated in the drawings, and the cushions 14 and 15 likewise serve to break the fall of the steel.

It will be observed that these cushions while serving a useful purpose do not in any manner interfere with the passage of the knife along the steel, since the diameter of the cushion 14 is practically that of the outer end of the body.

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

1. As a new article of manufacture, an emery-steel having yielding cushions arranged to prevent the steel from coming in contact with a plain or substantially flat surface, one of said cushions being extended from the end of the steel and having a taper corresponding to that of the said steel, substantially as specified.

2. An emery-steel, comprising a body, a handle and a reinforcing-rod extending through the body to the handle and out beyond the outer end of the body, a cushion secured upon the outer end of the reinforcing-rod, which cushion forms a continuation of the body, being in engagement with the rear end thereof, and a second cushion located exteriorly on the handle and extending beyond the outer face of the handle, for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE F. LUCAS.

Witnesses:
J. FRED. ACKER,
JNO. M. RITTER.