D. EARLE.

Magnetic Razor-Strap.

No. 38,101. Patented April 7, 1863

Fig. 1.

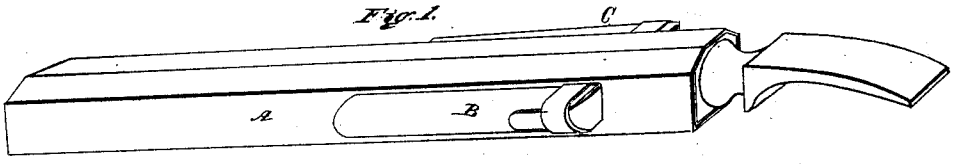

Fig. 2.

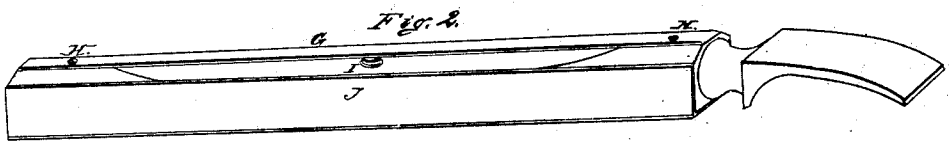

Fig. 3.

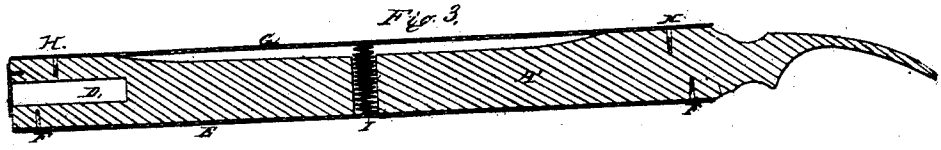

Fig. 4.

Witnesses:
W. H. Burnings
J. Brainerd

Inventor.
D. Earle.

UNITED STATES PATENT OFFICE.

D. EARLE, OF PALMYRA, OHIO.

IMPROVEMENT IN MAGNETIC RAZOR-STROPS.

Specification forming part of Letters Patent No. **38,101**, dated April 7, 1863.

To all whom it may concern:

Be it known that I, J. D. EARLE, of Palmyra, in the county of Portage and State of Ohio, have invented new and useful Improvements in Magnetic Hones and Strops for Razors, &c.; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view with the case on. Fig. 2 is a perspective view with the case off. Fig. 3 is a longitudinal vertical section, and Fig. 4 is a cross-section.

Like letters refer to like parts.

The nature of my invention relates to an inflexible metallic hone upon one side, and on the opposite side, a flexible metallic hone, and connecting the two by means of a spiral coil. The metallic plates are intended to be made permanently magnetic. The sides of the body of the hone are covered with leather, and are used for the purpose of setting a fine edge after the use of the hone.

A represents the case. Upon one side is a pocket, B, for the paste which is used on the hones. This paste may consist of the washed flour of emery or other similar substance. Upon the side opposite to B is a pocket, C, which is used for storing a bottle of sweet-oil, to mix with the paste when it is used. In the end of the body of the strop is another pocket, D, which is used for containing the peroxide of iron or other similar substance to be used upon the flexible side of the hone in connection with sweet oil, as before stated.

The inflexible hone consists of a plate of spring tempered steel, E, which is secured to the body of the strop A′ by means of the screws F, the steel plate lying close to the surface of the wood, so that there is no spring thereto. This plate E is rendered permanently magnetic, and is about two inches in width and from ten to fifteen inches long. This plate E is used for grinding, and for this purpose a few drops of oil are rubbed upon the smooth face of the steel plate E, and a small quantity of prepared emery sprinkled upon it. The instrument to be sharpened is laid flat and carried with a kind of circular motion, turning the instrument occasionally, till a tolerable edge is obtained.

G represents a flexible or elastic hone. It consists of a thin plate of spring-tempered steel, which is is also rendered permanently magnetic. This steel plate G is also secured to the body A′ of the strop by screws H, but instead of resting upon the wood, as is the case with the plate E, the wood is cut away, leaving about one-fourth of an inch space between the wood and the steel plate. This plate G is about one inch in width, and the corners of the body are beveled off to correspond, as shown in Fig. 2. The two plates are united at their centers by means of a spiral spring, I. The flexible hone G is used for the purpose of giving a fine edge to the instrument, and is used with oil and the peroxide of iron in the same manner that the inflexible side is used with emery, but the pressure of the instrument upon the plate should be very light, for the flexibility of this renders the face concave to a slight degree, which favors the setting of a very fine edge. In consequence of the magnetic condition of the hone, the instrument is held more firmly in contact with the face of the hone, without pressure from the hand, giving at the same time a finer edge. The finishing strokes may be given upon the leather sides J, as in other similar strops.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The herein-described permanently-magnetic hone when the same is constructed substantially in the manner and for the purpose herein specified.

D. EARLE.

Witnesses:
W. H. BURRIDGE,
J. BRAINERD.