(No Model.)

# S. T. HARRISON.

## RASP.

No. 279,750. Patented June 19, 1883.

Fig. 1.

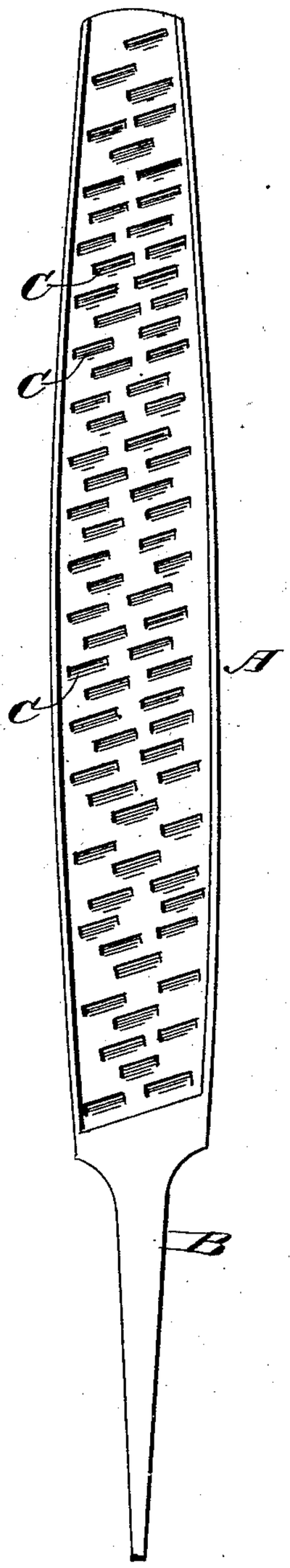


Fig. 2.

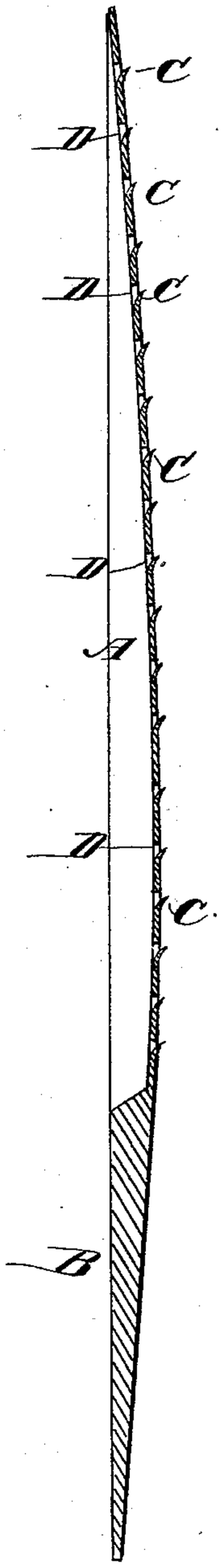


Fig. 3.


WITNESSES:

Francis McArdle.

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INVENTOR:

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# UNITED STATES PATENT OFFICE.

SAMUEL T. HARRISON, OF SAN FRANCISCO, CALIFORNIA.

## RASP.

SPECIFICATION forming part of Letters Patent No. 279,750, dated June 19, 1883.

Application filed December 23, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL T. HARRISON, of San Francisco, in the county of San Francisco and State of California, have invented a new and Improved Rasp, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved rasp which is of simple construction and can be sharpened very easily.

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

Figure 1 is a longitudinal elevation of the rear side of my improved rasp. Fig. 2 is a longitudinal sectional elevation of the same. Fig. 3 is a cross-sectional elevation of the same.

The rasp is made of a thin steel plate or strip, A, and may be flat, half-round, or angular in cross-section, and which is provided at its lower end with a shank, B, adapted to be driven into a handle. By means of some suitable instrument part of the steel plate A is punched out from the back to the front, whereby a series of upwardly-projecting and slightly-inclined ridges C will be formed throughout the length of the plate, as shown in Fig. 2. A slot, D, will be formed above each ridge. The upper projecting edges of the ridges C will be sharp, and if the rasp is passed over wood, leather, &c., the sharp ridges will remove some of the particles of the leather, wood, &c., in the same manner as they are removed by the teeth of an ordinary rasp. If the ridges or teeth C are dulled, they can easily be sharpened or made effective by punching them out again by means of a suitable instrument. As the ridges are longer than the teeth of an ordinary rasp, my improved rasp will be much more effective and will accomplish more work than the usual rasp.

I am aware that a hoof-paring tool made in tubular form, of two sections and provided with teeth inwardly inclined from the cutting-edges, is not new; nor do I claim it; but

What I do claim as new and of my invention is—

A rasp forged with the tang and body in one piece, the latter drawn into a transversely-concave form and punched to form the teeth and throats C D, as shown and described.

SAMUEL THURSTON HARRISON.

Witnesses:
M. C. DUFFICY,
ALF BENNINGTON.