

T. R. Williams,

Preparing Hides.

No. 106,439.

Patented Aug. 16. 1870.

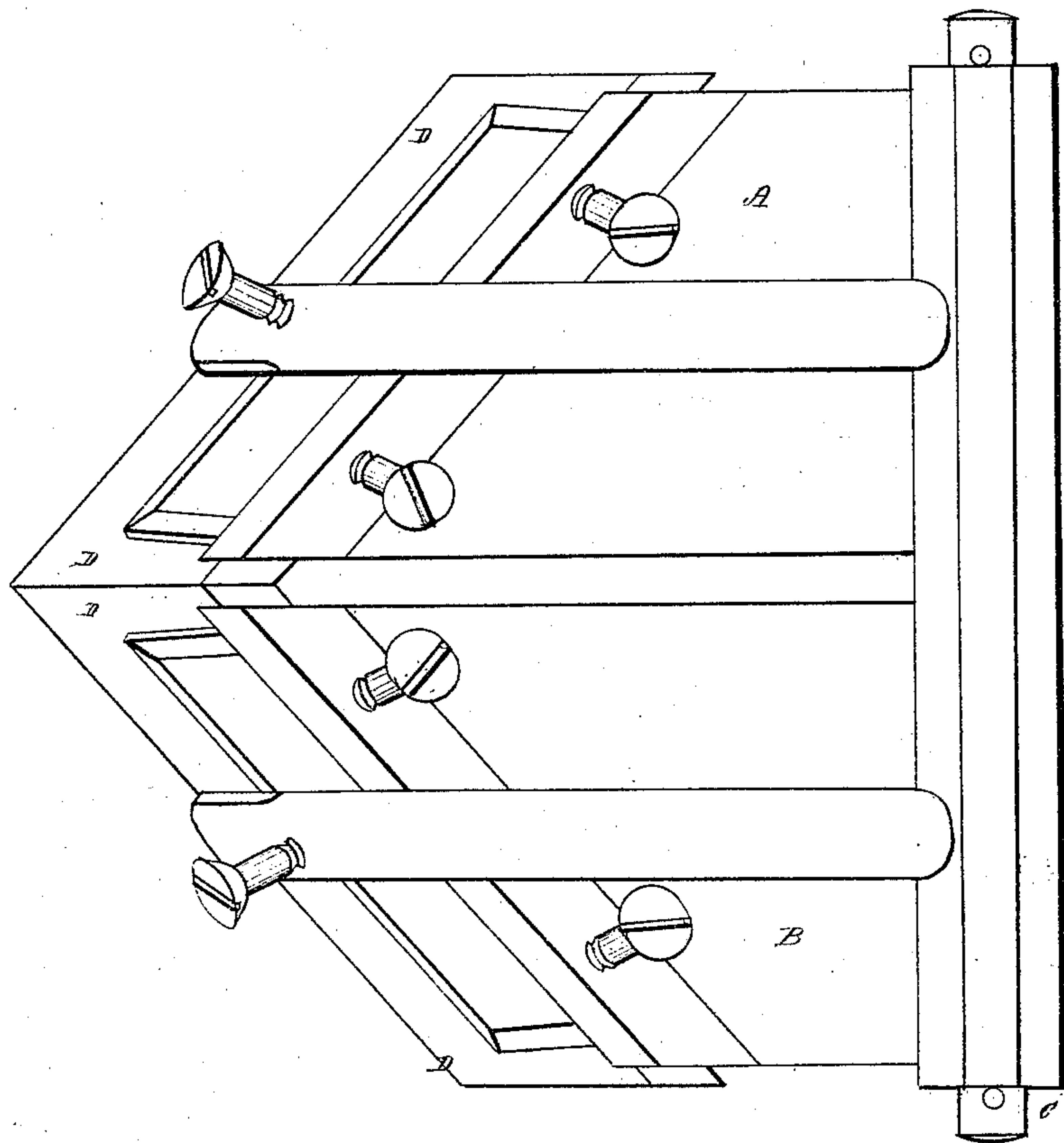
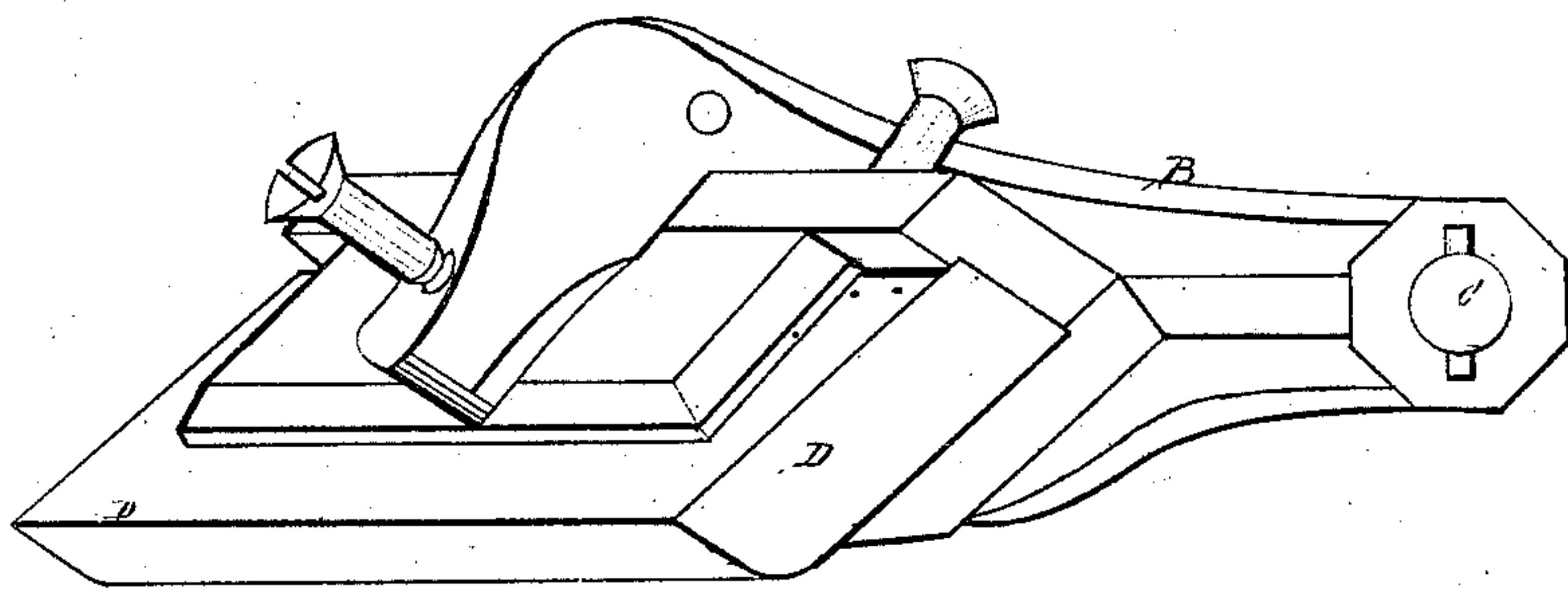


Fig. 2.



Witnesses

S. N. Dupre

J. R. Brown

Theron B. Williams.

by his attorney

R. W. Eddy

United States Patent Office.

THERON R. WILLIAMS, OF SALEM, ASSIGNOR TO CHESTER GUILD, JR.,
OF BOSTON, MASSACHUSETTS.

Letters Patent No. 106,439, dated August 16, 1870.

IMPROVEMENT IN MACHINERY FOR WORKING HIDES, SCOURING LEATHER, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all persons to whom these presents may come:

Be it known that I, THERON R. WILLIAMS, of Salem, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Machinery for "Working Hides," Scouring, Setting-out, or Finishing Leather; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing making part thereof.

Of such drawing—

Figure 1 denotes a top view, and

Figure 2, a side elevation of a pair of tool-holders, with my improved arrangement of the slickers or tools thereof.

In leather-scouring machines, as heretofore constructed, the slickers, or scouring-stones, or tools, have generally been arranged at right angles with the direction of their traverse. When set in this manner they, while in operation, stretch or expand the leather only in one direction, the "shanks" and "bellies" being liable, under such expansion, to become wrinkled or plaited in folds. In passing over the shank the tools are also liable to catch and throw up the leather.

With my invention these difficulties are obviated, such invention consisting in a new arrangement of the scouring-stone, that is, so as to be oblique to the line of traverse, one stone of the pair being at the same time disposed at an angle with the other. In this way their rubbing-edges, instead of being at right angles to the direction of movement of them, stand obliquely therewith, and cause the leather to be spread out laterally as well as longitudinally, the same serv-

ing to prevent the formation of wrinkles or plaits, as well as to remove any which may exist in the leather.

The two stones, arranged at an angle with each other, and obliquely to their paths of motion, spread the leather in opposite directions away from the medial line of their general traverse, and thereby greatly facilitate or improve the process of setting-out and scouring the leather.

Furthermore, when the stones of a pair are arranged at an angle with each other, as represented in the accompanying drawing, there will be little or no liability of their catching into or throwing up leather, while they may be at work upon it.

In the drawing—

A B denote a pair of the tool-carriers, arranged on a common shaft, C, and provided with tools or scourers D D, disposed in manner as hereinbefore mentioned.

What I claim as my invention or improvement in machines for scouring or setting-out leather or hides is—

The new arrangement of each tool in its carrier, viz., so that such tool while in operation shall stand obliquely to its traverse or path of movement.

Also, the tools of each pair as arranged at an angle with each other, and obliquely relatively to the direction of their traverse, as hereinbefore described.

THERON R. WILLIAMS.

Witnesses:

R. H. EDDY,
J. R. SNOW.