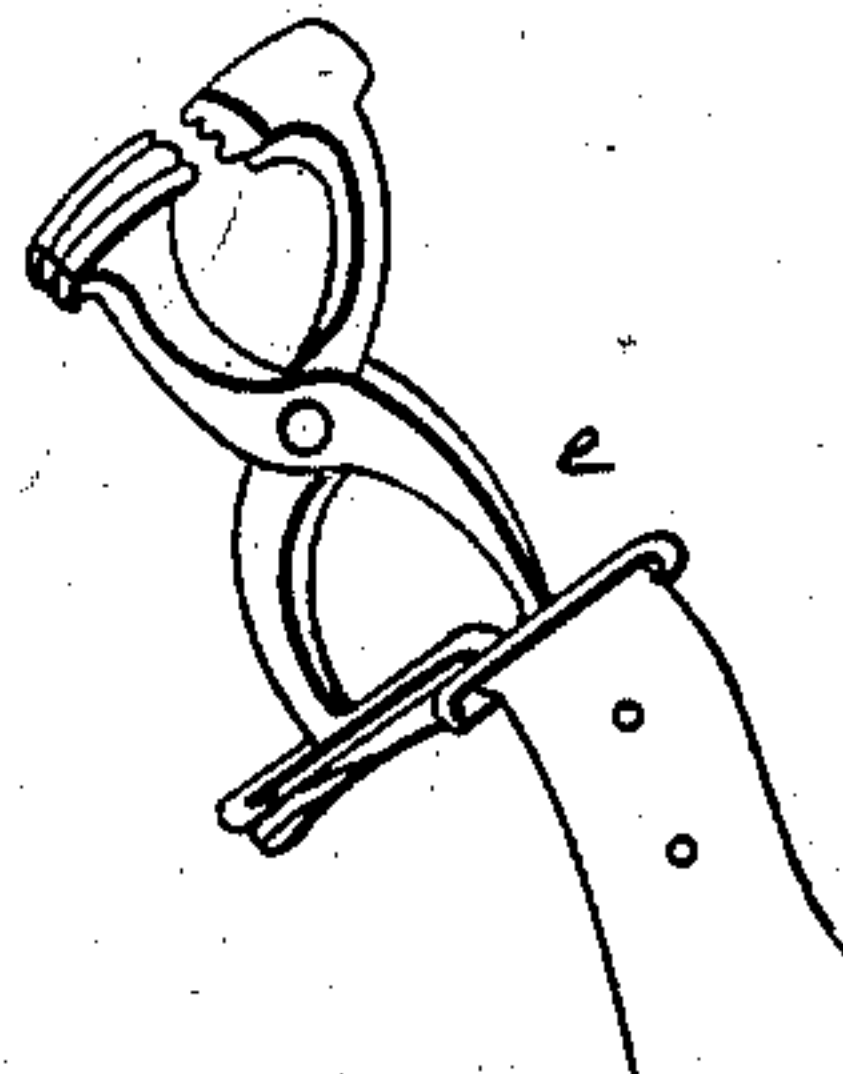
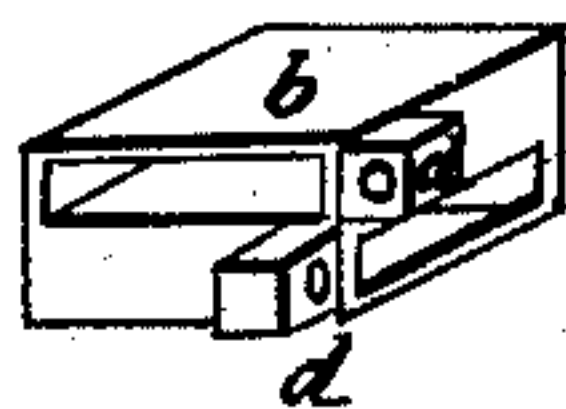
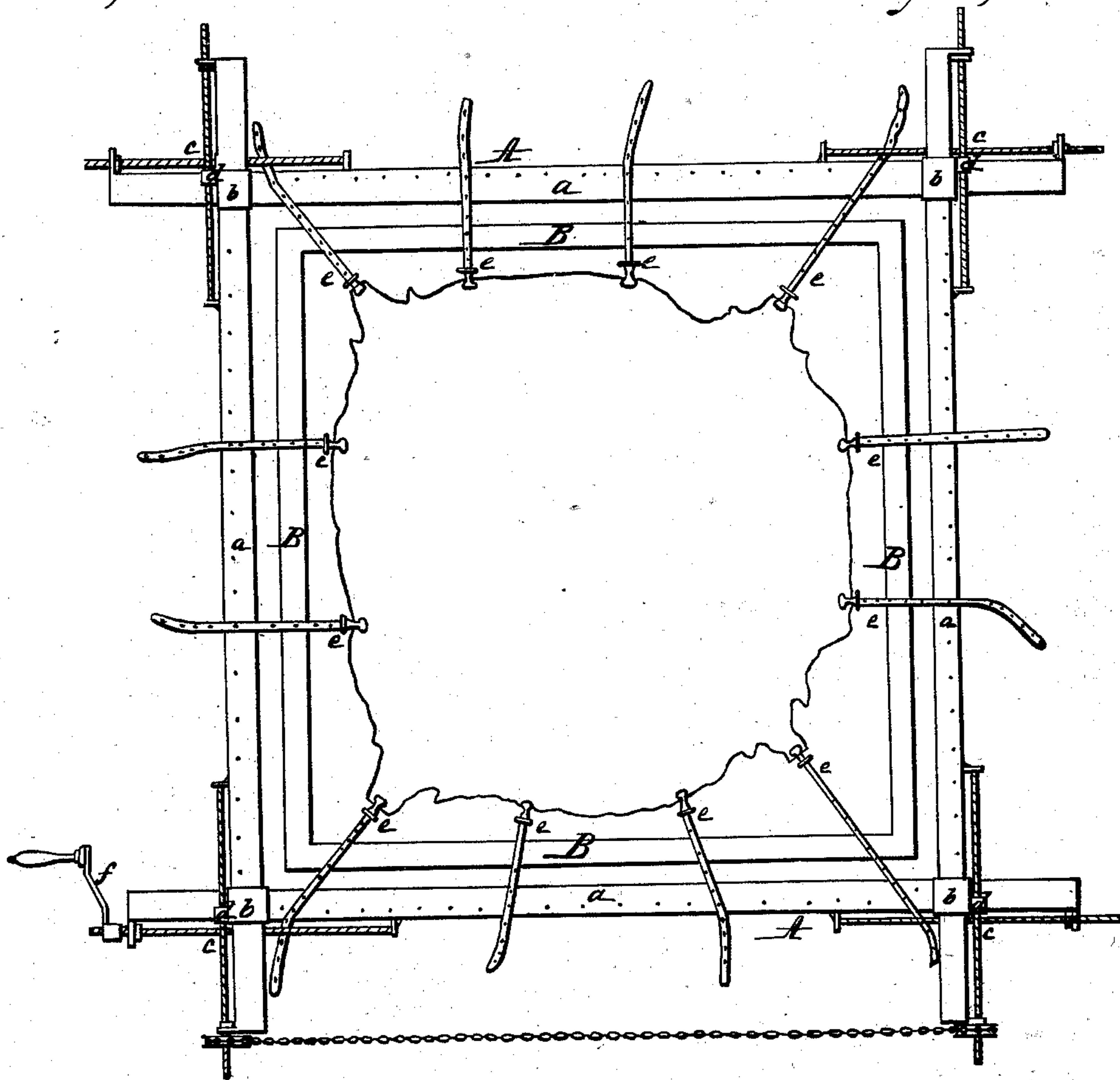


*A. Marsh,*  
*Stretching Leather.*

*N<sup>o</sup> 67,996.*

*Patented Aug. 20, 1867.*



*Witnesses:*  
*W. M. Gooding*  
*Sidney. W. Edwards*

*Inventor:*  
*Augustus Marsh*

# United States Patent Office.

AUGUSTUS MARSH, OF NEWARK, NEW JERSEY, ASSIGNOR TO HIMSELF AND  
WILLIAM HOGG, OF MELROSE, NEW YORK.

*Letters Patent No. 67,996, dated August 20, 1867.*

## IMPROVED APPARATUS FOR STRETCHING SKINS.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, AUGUSTUS MARSH, of the city of Newark, in the county of Essex, and State of New Jersey, have invented an Apparatus for Stretching Raw or Tanned Hides and Skins; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings that accompany this specification, and which make part of the same.

The nature of my invention consists in the construction of an expanding frame, consisting of bars that cross each other at the corners through double sockets, to which suitable screws and other machinery are attached, and also in adaptation of nippers to holding the skin in the stretching.

Flat bars of wood, of suitable length, thickness, and width to endure the strain required by the large or small size of hide or skin to be stretched, cross each other at their ends at right angles, through a socket having two apertures at right angles to each other through it, the one above the other. A long screw passes through a nut in a line parallel with the aperture, the nut being secured, one to each aperture, in the socket. These screws are fast to the edges of the bars in bearings, in which they can turn, forcing the socket along upon one bar, carrying with it the other bar.

*a a a a* indicate the bars in the drawings. *b b b b* show the sockets, one of which is shown enlarged in perspective at Figure 2. *c c c c* show the screws, and *d d d d* the nuts, fast to the sockets. The frame, Figure 1, A, is laid horizontally upon a table or upon trestles. A common plain frame, B, is placed within A. Nippers, having leather or other straps attached thereto, with holes in the straps, are put upon the edges of the hide or skin, and attached to the bars *a* of the frame A by hooks, buttons, or inclined pins. By turning the screws the frame A is expanded and the leather stretched. The nippers and straps are indicated by the letter *e*, and in perspective and enlarged in Figure 3. When desirable, in large frames, the two screws that carry one bar can be connected by belt or endless chain, that both ends may be moved equally by one crank, as the one crank, *f*, fits all the screws. The hide or skin being stretched can be fastened in any of the ordinary methods to the common frame, B, and the nippers released to be again used. The nippers *e* are constructed with loops at the end of each arm. The strap fast to one passes through the other, the strain closing the jaws upon the skin or hide.

I claim the frame A, with the double sockets *b*, screws *c*, when constructed and operated substantially as described for the purpose of stretching raw or tanned hides or skins.

Also, the nippers and straps, in combination with frame A, for attaching the skins or hides thereto for the purpose of stretching the same.

Witnesses:

WM. M. GOODING,  
SIDNEY U. EDWARDS.

AUGUSTUS MARSH.