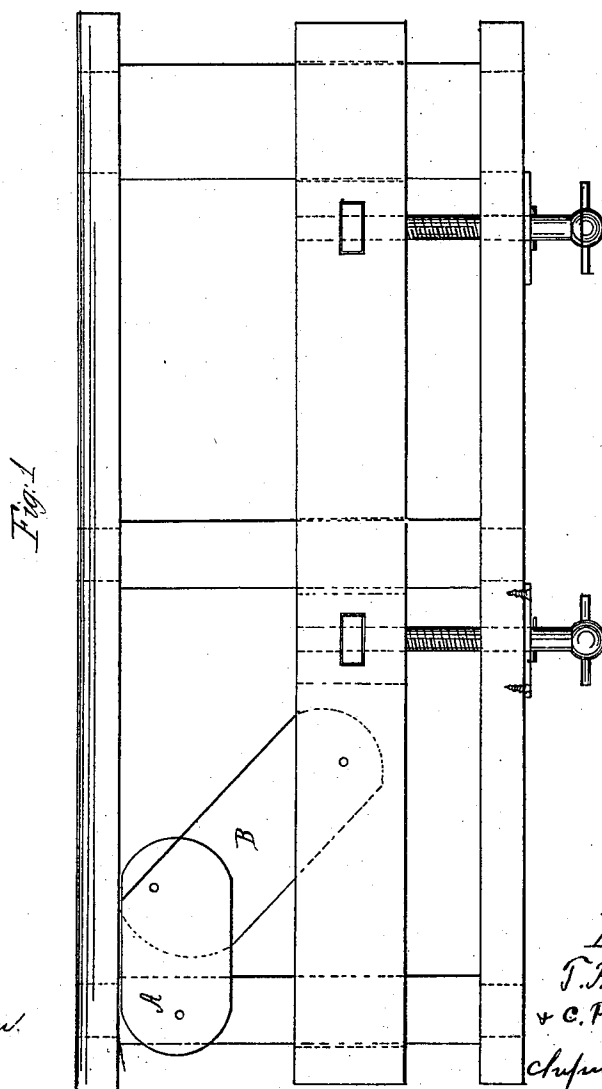
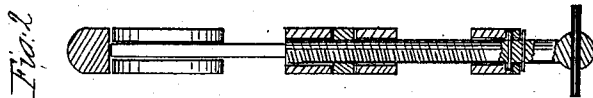


T. P. HOWELL & C. P. OLIVER.
FRAME FOR STRETCHING HIDES AND LEATHER.

No. 77,615.

Patented May 5, 1868.



Witnesses:
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United States Patent Office.

THEODORE P. HOWELL AND CHARLES P. OLIVER, OF NEWARK, NEW JERSEY.

Letters Patent No. 77,615, dated May 5, 1868.

IMPROVEMENT IN FRAMES FOR STRETCHING HIDES AND LEATHER.

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

TO WHOM IT MAY CONCERN:

Be it known that we, THEODORE P. HOWELL and CHARLES P. OLIVER, of Newark, in the county of Essex, and State of New Jersey, have invented a new and valuable Improvement in Frames for Stretching the Hides of Animals; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

The nature of our invention consists in providing better means than have heretofore been devised for stretching the shoulder-parts of the skin in such a manner as to give the skin a full, compact form, and thereby add greatly to its value.

We find by experience that an enamelled hide which is full and tolerably straight on the fore shoulders, is more valuable to practical coach-trimmers than one which is narrow and crooked at that point. In trimming coaches, it is found that a hide shaped with full, straight fore shoulders, measuring fifty-seven or fifty-eight feet, will cut a top for a carriage as large as another hide not so shaped that measures sixty-two or sixty-three feet.

Now, inasmuch as in all that class of hide-stretchers whereon the back of the hide is supported on a beam, the fore shoulders are tacked upon the upper end of a diagonal brace or swinging lever, the breast and belly necessarily occupy the lower end of the said brace or lever, and, in consequence, are stretched more than the shoulders. Our device is intended to remedy this difficulty, and to give a greater stretch to that portion of the hide comprised in and about the fore shoulders than to the breast and belly, and thereby add to its value by giving it the shape and form most desirable for the use of carriage-trimmers.

Our frame is constructed in all respects according to the drawings and specification of the patent issued to us, August 6, 1867, except that instead of the braces or swinging levers therein set forth, we affix to the frame the device marked A and B on the drawings which accompany this specification, and are a part thereof.

The letter A is an arm, pivoted to one of the outside upright posts of the frame in the manner represented, and its opposite end is pivoted to the arm B, in the manner shown. The arm B is pivoted to the arm A, as above stated, and it is also pivoted, at its lower end, to the main sliding bar of the frame, in the manner represented on the drawings.

Our device operates as follows: The hide to be stretched is thrown over the upper beam of the frame, with the back resting on said beam longitudinally. The extremities of the hide are tacked to the frame in the usual manner, and the shoulder-parts are tacked to the arms A and B. Now, as the main sliding beam is forced downwards, the strain comes with great force upon the shoulder-parts, and the hide is shaped into that square, compact form above described, and so desirable for trimming carriages and other purposes.

This apparatus is an improvement over the machine described in Dawson's patent of June 25, 1867, inasmuch as our machine stretches the hide on the neck and shoulders so as to bring it to a square form, as is desirable for covering carriages.

What we claim as our invention, and desire to secure by Letters Patent, is—

The arms A and B, constructed, combined, and operating substantially as and for the purposes specified.

THEO. P. HOWELL,
CHAS. P. OLIVER.

Witnesses:

DAVID C. DODD,
CHAS. H. TAX.