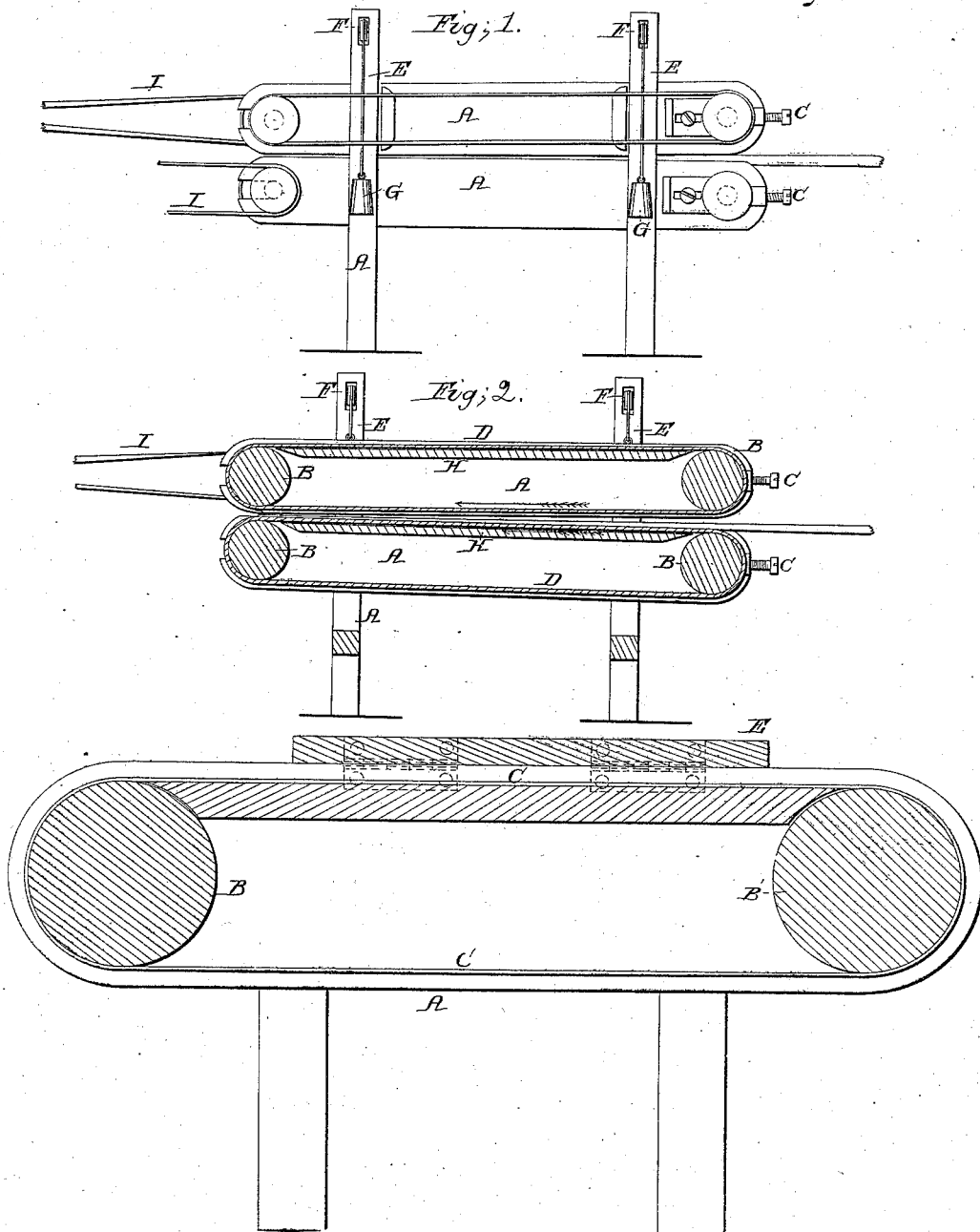


C. Baeder,

Polishing Whips,

No 7,373,

Patented May 21, 1850.



# UNITED STATES PATENT OFFICE.

CHAS. BAEDER, OF NEW YORK, N. Y.

## MACHINE FOR POLISHING RAWHIDE WHIPS.

Specification of Letters Patent No. 7,373, dated May 21, 1850.

*To all whom it may concern:*

Be it known that I, CHARLES BAEDER, of the city, county, and State of New York, have invented a new and useful Mode of Grinding, Smoothing, and Polishing Rawhide Whips, which is described as follows, reference being had to the annexed drawings of the machine by which the operation of smoothing and polishing is performed.

Figure 1, is a side elevation of the machine. Fig. 2, is a vertical longitudinal section.

Similar letters refer to corresponding parts.

In a suitable frame, A, I arrange four rollers B, whose axles are parallel and turn in suitable boxes—two of which are stationary and two are made to slide longitudinally by means of set screws C. Around these rollers I pass two endless belts D, of leather, cloth, or other suitable material covered with corundum or emery, or other suitable fine polishing material, fixed thereto by glue or other suitable adhesive substance.

The frame is made in two parts. The lower part (which is stationary) carries the lower belt. The upper part (which is movable) is attached to the ends of four cords E, passed over pullies F, said cords having weights G, attached to their lower ends for counter balancing the said upper part of the frame and its appendages when raised from the lower belt and while the operation of polishing is stopped.

Between each pair of rollers and inside the endless belt is arranged a horizontal table H, over which the belt moves and which prevents it from sagging. Two set screws are applied to the two sliding boxes of one of the rollers of each belt.

The belt I, from the driving power (which may be steam, water, or animal) is passed around a pulley on the end of the axle of one of the rollers. A crossed band J, is passed over a pulley on one of the upper rollers. The pulleys of the upper and lower belts cause the two polishing belts to turn in the direction of the arrows or toward the whip to be smoothed and polished.

The rollers should be turned at a quick

speed for the purpose of grinding and polishing rapidly and effectually and reducing the whip to the required taper.

When it is required to increase the taper of the whip the lower end of the upper belt must be brought nearer to the surface of the lower belt.

Operation: The machine being put in motion the operator who stands in front of one end of the frame, with a bundle of rough whips by his side takes one of them and passes its small end foremost between the belts and then turns it a few times on its axis and then draws it out from between them when it will be found to be reduced to the required taper, smoothed, and polished—but should it not be sufficiently smoothed it may be placed upon the upper belt and pressed upon with a block or holder till it be sufficiently smoothed. When the whip is between the belts should it be discovered that the pressure of the upper belt is not sufficient to grind the whip, it may be increased by adding weight to the frame, or by resting the counter weights upon stands or supports and thus bringing the weight of the suspended frame and all its appendages upon the whip under operation.

The whip may be managed by power machinery combined with the grinding and polishing apparatus.

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

The before described method of grinding, smoothing and polishing raw hide whips, in the manner and for the purpose herein fully set forth, that is to say by the combination of the endless revolving belts D, D, between which the rough raw hide whip is placed, the suspended frame containing the upper endless belt being arranged and operated in the manner and for the purpose set forth.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

CHARLES BAEDER.

Witnesses:

WM. P. ELLIOT,  
LUND WASHINGTON.