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Johnson

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(54) **SHAVING LEATHER**

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Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Hezekiah Johnson himself of his improvement in the machine for shaving and smoothing all kind of tanned Leather."

To all to whom these presents shall come Be it known that I Hezekiah Johnson of the Town of Brooklyn in the County of Windham and State of Connecticut have invented a new and useful machine for shaving and smoothing leather and that the following is a full and exact description thereof (viz) a machine for shaving and smoothing all kinds of tanned leather with one or more knives, each side of the leather or skin can be shaved all of one thickness or varied to any desirable thickness. The machine may be varied to any size according to the width of the leather to be shaved and smoothed. The length of the knives may be varied on the same shaft. The knives are placed one or more in the form of a cylinder and for heavy leather or for common use the wheel or cylinder is made consist of five rows whereby six inches diameter placed on an iron shaft about four feet in length and two and a half inches diameter at equal distances from each other. On these rows would be placed nine knives two inches apart and one foot and a half long in an angular direction across the wheel by first screwing flat bars of iron one inch in width and half an inch or and across the wheels in the same length and shape of the knives. then screw the knives on them ground to an edge on the under side. Short knives are made use of in shaving soft leather for the purpose of turning the leather for scouring the leather in any direction and for the purpose of shaving to any desirable thickness the knives must be as long as the wheel are wide. The machine is enclosed in a frame about four feet square with two of the legs firmly running over the corner posts about one foot. A shelf is framed at a second perpendicular about two feet from the corner posts and inserted into the legs and lower

and lower joist, & then frame a joist three feet in length one end into the second post within & through it two feet from the second post and the corner post planed so as to slide up and down and raised or lowered by means of screws placed on the top of the sliding joist. The cylinder of knives is placed in the top of the frame one foot from the corner posts and in the centre of the cylinder and on the sliding joist is placed an iron roller about three inches diameter and about four feet long to draw the leather through directly under the cylinder of knives. And 2 places two smaller rollers of iron close to the large one and the bottom one to be placed to the large one and the other one placed on the top of the large one for the purpose of drawing the leather more directly under the knives and on the large roller. By turning the cylinder the leather is drawn through the machine and shaved. The cylinder is turned by a pulley or pinion four inches diameter placed on the end of the shaft of the cylinder driven by a wheel thirty inches diameter placed on the end of a shaft one inch diameter and four feet in length with a bell from one to the other on which is placed a crank. On the other end of the inch shaft is placed a pulley or pinion two inches diameter for the purpose of turning the iron rollers under the cylinder of knives by placing on the end of the three inch roller a wheel thirty inches in diameter with a band or bell from the two inch pinion to the thirty inch wheel on the top of the frame and opposite to the cylinder is placed one knife in an angular frame for the purpose of shaving all kinds of leather and also a rubber for smoothing leather both of which are moved in the same manner by placing at the two corners of the two corners of the frame two small pulleys six inches diameter each on an iron shaft suspended by two posts each with a crank on the inside ends of the shafts, on these cranks is placed a rod that extends from and fastened to the one knife and rubber for the purpose of moving them backward and forward which by a quick motion to all shave leather placed under. A iron beam eight inches wide and four

inches thick the rubber on the same manner. The bands, or belts, which put in motion the single knife and rubber press are a six inch pulley to and over a thirty inch wheel which a crank is fastened for the purpose of turning the cylinder. The belt for turning the rollers under the cylinder passes the thirty inch wheel and placed on the end of the three inch roller under the cylinder and from there to a pulley two inches diameter by the side of the thirty inch wheel on the end of the one inch shaft on the top of the one inch shaft is placed a roller for the purpose of drawing the leather under the single knife which is moved by a crank placed on the end of the one inch shaft which turns the roller that lays on the top and also puts the whole machine in motion. The angular frame in which the single knife is placed may be raised or lowered for the purpose of shaving leather to any desirable thickness by means of screws at the corners of the frame that rises.

For a further illustration of my invention I refer to the model and drawing of the same deposited in the Patent Office. Sayd. 1836.

Witnesses
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Daniel Rice

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(1066 words)

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