

(No Model.)

R. S. STRATTON.
MACHINE FOR HOOPING PAILS AND TUBS.

No. 420,474.

Patented Feb. 4, 1890.

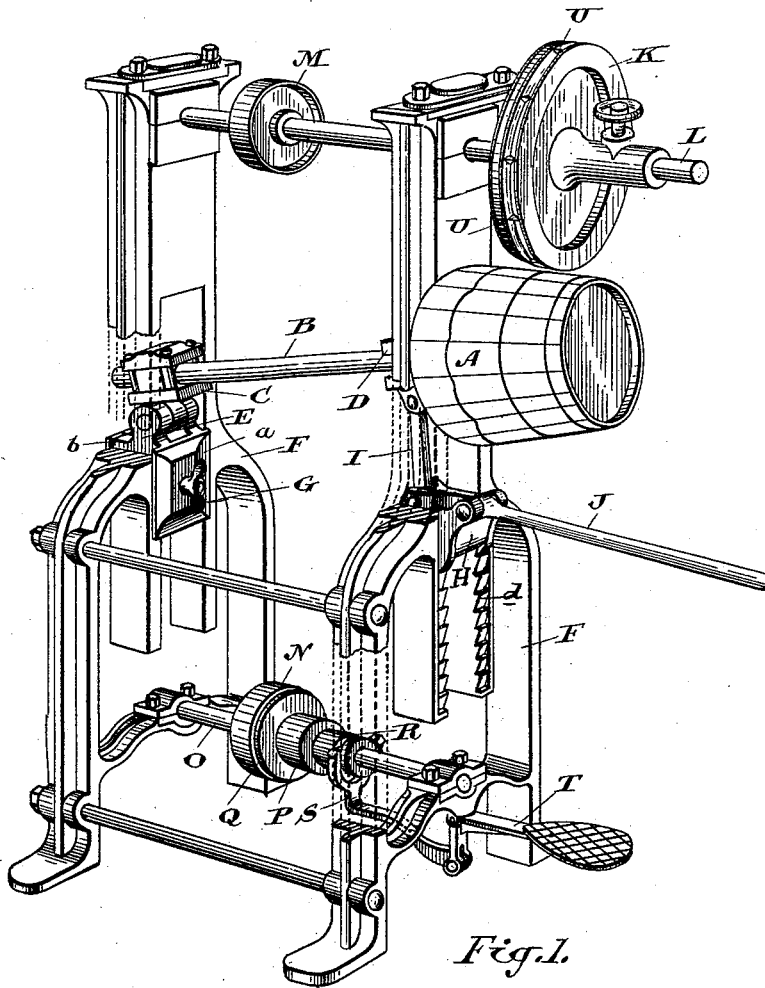


Fig. 1.

Witnesses.

F. B. Lethbrunhaugh.

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Inventor:

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UNITED STATES PATENT OFFICE.

ROBERT SAMUEL STRATTON, OF ORILLIA, ONTARIO, CANADA.

MACHINE FOR HOOPING PAILS AND TUBS.

SPECIFICATION forming part of Letters Patent No. 420,474, dated February 4, 1890.

Application filed April 19, 1889. Serial No. 307,866. (No model.)

To all whom it may concern:

Be it known that I, ROBERT SAMUEL STRATTON, carpenter, of the town of Orillia, in the county of Simcoe, in the Province of Ontario, Canada, have invented a certain new and Improved Machine for Hooping Pails, Tubs, &c., of which the following is a specification.

The object of my invention is to design a machine for the purpose of fixing in position an improved hoop invented by me for pails, tubs, and similar utensils; and it consists, essentially, of an adjustable holder designed to support the pail or tub to be hooped, and operating in connection with a disk having indenting-projections arranged around its periphery, and provided with mechanism by which it may be caused to revolve as required, the whole being constructed and operated substantially as hereinafter more particularly explained.

The figure is a perspective view of my machine, with a portion of the frame broken away to expose the adjustable bearing-boxes.

In the drawing, A represents a pail which is placed upon a suitably-shaped holder fixed to the shaft B. This shaft is suitably supported in bearing-boxes C and D. The bearing-box C is hinged to the top of the block E, which fits into a vertical guideway formed in the frame F and has a plate *a* formed on one side of it and a plate *b* attached to its other side, so that by tightening the thumb-nut G the plates *a* and *b* may be caused to grip the frame F, and thus hold the block E, with its bearing-box C, in any desired vertical position. The bearing-box D is connected by a link I to the end of a lever J, pivoted on the block H, located in and fastened to the frame F in the same manner as the block E; but the side of the block H has a projection formed on it in which the lever J is pivoted, and the bottom of the block H is shaped to engage with ratchet-teeth *d*, formed on the face of the frame F, as indicated. These ratchet-teeth are provided for the purpose of constituting a positive support for the block H when fixed in the desired position.

K is a disk adjustably connected to the shaft L, which is journaled in suitable bearing-boxes fitted into the frame F. The shaft L is provided with a suitable pulley M, which

is connected by a suitable belt to the pulley N, which latter pulley is keyed or otherwise fastened to the shaft O.

P is a pulley loosely journaled on the shaft O and connected by a suitable belt to the driving-power.

Q is a friction-disk fixed to the pulley P, and R is a sleeve fixed to the opposite side of the pulley P. This sleeve R has an annular groove cut in it to receive pins which project from the forked end of the bar S. The other end of the bar S is connected to the foot-crank T, which is pivoted on the bottom of the frame F, as indicated. By pressing down the foot-crank T the disk Q is pressed against the pulley N, thus forming a connection between the shaft O and the said pulley and causing the said pulley N and shaft L to revolve. As the disk K is connected to this latter shaft, it also will revolve so long as the disk Q is held in frictional contact with the pulley N.

The foregoing is a description of the mechanical parts involved in my invention; but it will of course be understood that I do not confine myself to the exact shape of the parts shown, nor do I wish to restrict myself to the exact arrangement of the parts illustrated.

For the purpose of illustrating my invention I have shown a pail being operated upon; but it will of course be understood that any kind of hooped utensil may be similarly acted upon.

I may mention that my improved hoop consists of a plain wire band, which I fit over the pail A, as indicated. I then adjust the shaft B so that the surface of the pail shall be substantially parallel with the shaft L. I then adjust the disk K so that its grooved periphery, in which the indenting projections U are arranged, will come immediately over the hoop I wish to fix into position. I then press down the lever J, so as to force the pail against the periphery of the disk K, which periphery is preferably covered with rubber or similar material, so that a frictional connection shall be formed between it and the pail. When the foot-crank T is pressed down, the disk K will, as before described, be caused to revolve, and as the pail A is held in contact with it the said pail will also revolve,

and the indenting projections U will form at regular distances apart indentations in the hoop against which they are acting, thus securing the said hoop rigidly in position. The disk K is made adjustable on its shaft L, as indicated, so that it may be readily adjusted and fixed opposite to whichever hoop it is desired to act on.

Instead of providing a single adjustable disk K, a number of disks corresponding with the number of hoops it is intended to fix in position might be placed on the shaft B.

What I claim as my invention is—

1. The revolving shaft L, mounted in suitable bearings, and a disk K, fixed thereon, provided with a series of indenting projections U, arranged around its periphery, in combination with a shaft B, a rocking bearing C for said shaft, and an adjustable bearing-block D, and means, as the lever J and ratchet-teeth *d*, for holding the same in position, substantially as described.

2. The revolving shaft L, the disk K, fixed thereon and having around its grooved periphery rubber or other compressible material, and a series of indenting projections U at regular intervals in the groove, in combination with the shaft B, adapted to carry a holder designed to support a pail or other utensil to be hooped, a bearing-box C, supporting one end of said shaft B, the adjustable block E, hinged to said box C, a bearing-box D, supporting the other end of the shaft B, an adjustable block H, and a lever J, pivoted to said block H and connected to the bearing-box D, substantially as and for the purpose specified.

Orillia, March 25, 1889.

ROBERT SAMUEL STRATTON.

In presence of—

I. P. HENDERSON,
SAML. S. ROBINSON.