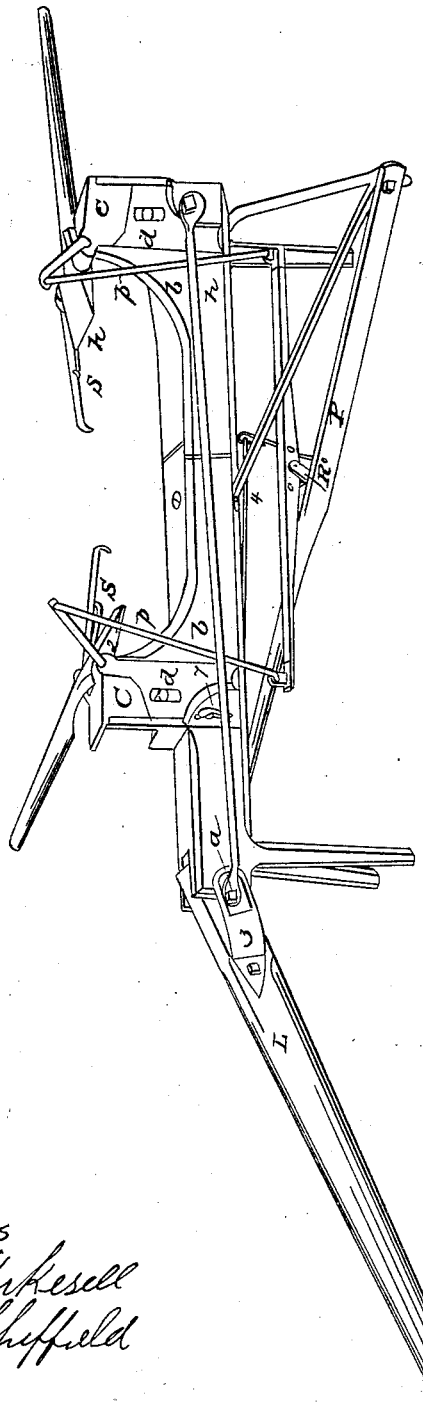
M. SCOTT.

Tire Shrinker.

No. 50,171. Patented Sept. 26, 1865.



WITNESSES

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MELCHI SCOTT, OF FAIRFIELD, IOWA.

TIRE-SHRINKING MACHINE.

Specification forming part of Letters Patent No. **50,171**, dated September 26, 1865.

To all whom it may concern:

Be it known that I, MELCHI SCOTT, of the city of Fairfield, in the county of Jefferson and State of Iowa, have invented a new and useful Improvement in Tire or Iron Shrinkers; and I do hereby declare that the following is a full, clear, and exact description and construction of the same, reference being had to the annexed drawing, being in perspective.

h h represent the bench; *b b*, the machine on top of the bench, which is made of cast-iron, made to divide in the center, and on the side of each end is a flange two and one-half inches high, to which is attached an adjustable cap by means of a screw, *d d*. In a slit outside of the cap C C, between the cap and flange, are grooves, so as to raise or lower the caps to fit thick or thin iron. The dogs or paddles 2 2, by which the iron is fastened. Through the hinge of the caps and dogs passes a gudgeon with a crank, 1, on one end, to which is attached a rod with a hook on each end, the lower end passing through an eye in each end of the evener O O. The evener O O is fastened to the lever P by a small clevis, R, in the center of the evener, so that when the lever is brought down the dogs will come down and hold alike fast. The lever P is fastened with one end to the hind leg of the bench and passing under the bench to the other side and front of the bench, which may be operated upon by the foot of the operator.

S S are two hooks and fly-levers attached to the front ends of the crank, which fasten, when brought down, on screws or pins in the side of the machine, which may be put in holes above when the cap is elevated for large iron.

The hand-lever L L is connected to the front end of the bench by means of a bolt and side irons, 3, forming a kind of clevis. In the front end of the same is a hole, which fastens on the outer ends of the bolt which fastens the lever to the bench, and in the clevis or side piece, one and one fourth of an inch from center to center, is a screw-bolt, *a*, to which one end of the side rods is fastened, and the other end is fastened to the machine by means of a screw-bolt, so that when the lever is raised the machine opens in the center. The operator will then determine how much he wants the iron shrunk. He will put it in the fire and heat it, and then into the shrinker and draw down the levers, and the work is accomplished.

4 is a steel spring under the bench, which is fastened at one end to the bench, and to the other end is fastened a small wire hook connecting the foot-lever which raises the lever and dogs when the foot is taken off.

8 is a screw-bolt in the front end of the stationary part of the machine, which may be loosened, and then by means of a small pin passing through holes in the bench and machine at 7, which may be raised to suit a small or large tire.

Now, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The caps C C, dogs 2 2, and the cranks 1 1, constructed and arranged as described.

2. The rods *p p*, evener O, and clevis R, in combination with the lever P, for operating the clamping device, as described.

MELCHI SCOTT.

Witnesses:
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