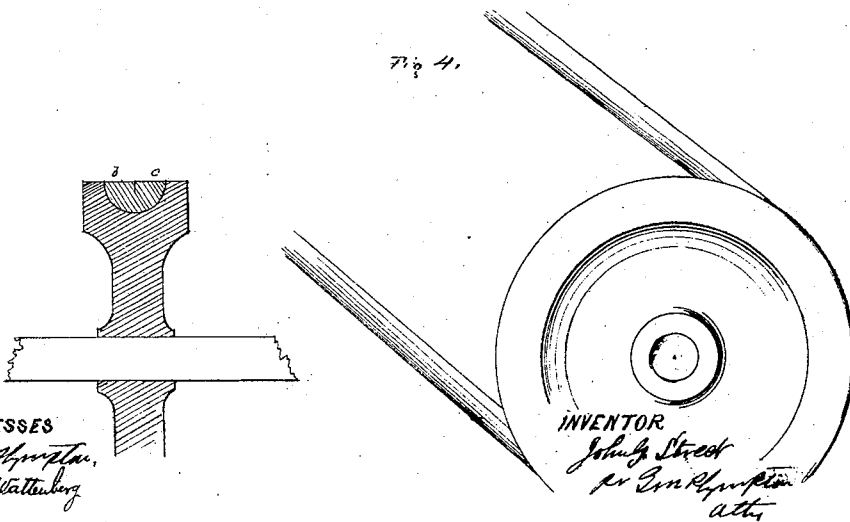
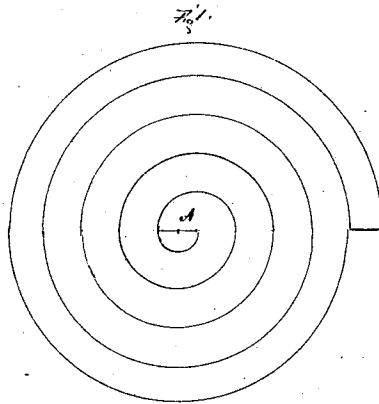


J. G. Street,

Machine Belting.

No. 102447.

Patented Apr. 26. 1870.



United States Patent Office.

JOHN G. STREET, OF BROOKLYN, NEW YORK.

Letters Patent No. 102,447, dated April 26, 1870.

IMPROVEMENT IN MACHINE-BELTING.

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

To all whom it may concern:

Be it known that I, JOHN G. STREET, of Brooklyn, in the county of Kings and State of New York, have invented a new and improved Machinery belt; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The object of this invention is to so produce a machinery belt as will not only have great strength, but at the same time readily adapt itself to the pulley around which it is used, besides being constructed at much less cost than ordinary belting.

In the accompanying sheet of drawings—

Figure 1 is a plan or top view of the leather coil;

Figure 2, a sectional view of my belt after passing through the first pair of rolls;

Figure 3, a sectional view of the belt when finished; and

Figure 4, the belt applied to a pulley, (two views.)

Similar letters of reference indicate corresponding parts in the several drawings.

A represents a coil of leather which has been cut from a side of leather of any desired quality. The width of the strip forming this coil will depend upon the width or size of the belt it is desired to make, as, for instance, a quarter-inch belt would require the strip to be one-half inch wide, &c.

The coil, having been thus formed, is passed between a pair of cast-iron rolls, the under roll having formed therein a half-round groove, and the upper roll being constructed with a projecting rib, of such size as will fit into the half-round groove of the under roll.

The strip of leather forming the coil A being thus

passed between said rollers, the sides or edges *b c* thereof are folded together in the shape of the letter **U**, and the coil is straightened into a long and continuous strip. This strip is then passed through a second pair of rolls, the under one of which having a half round groove, and the upper one a plain surface. This last rolling forces the two sides *b c* of the strip of leather closely together, thus forming the belt, the under side of which is convex, and the top side plane, or, in other words, a half-round belt.

The advantages of this belt over a round belt are, that a round belt will only fit, particularly after it is a little worn, to the lower side of the groove in the pulley whereon it runs, thus rendering the belt liable to slip, resulting in a loss of power; whereas with my belt it will be observed that the groove in the pulley is closely fitted at all times by the belt, and thus increased power is obtained; besides, a belt constructed as the one hereinbefore described is extremely strong, and will not twist, as will an ordinary round belt, and hence will not cut out so soon. And another important advantage in my belt is that, as it wears in the course of time, the sides of the belt, from its peculiar construction, will open, and thus always fill the groove of the pulley and maintain the full power as long as the belt lasts.

Having thus described my invention,

What I claim as new and desire to secure by Letters Patent, is—

A half-round machinery belt, constructed as and for the purposes hereinbefore described.

JOHN G. STREET.

Witnesses:

H. L. WATTENBERG,
G. M. PLYMPTON.