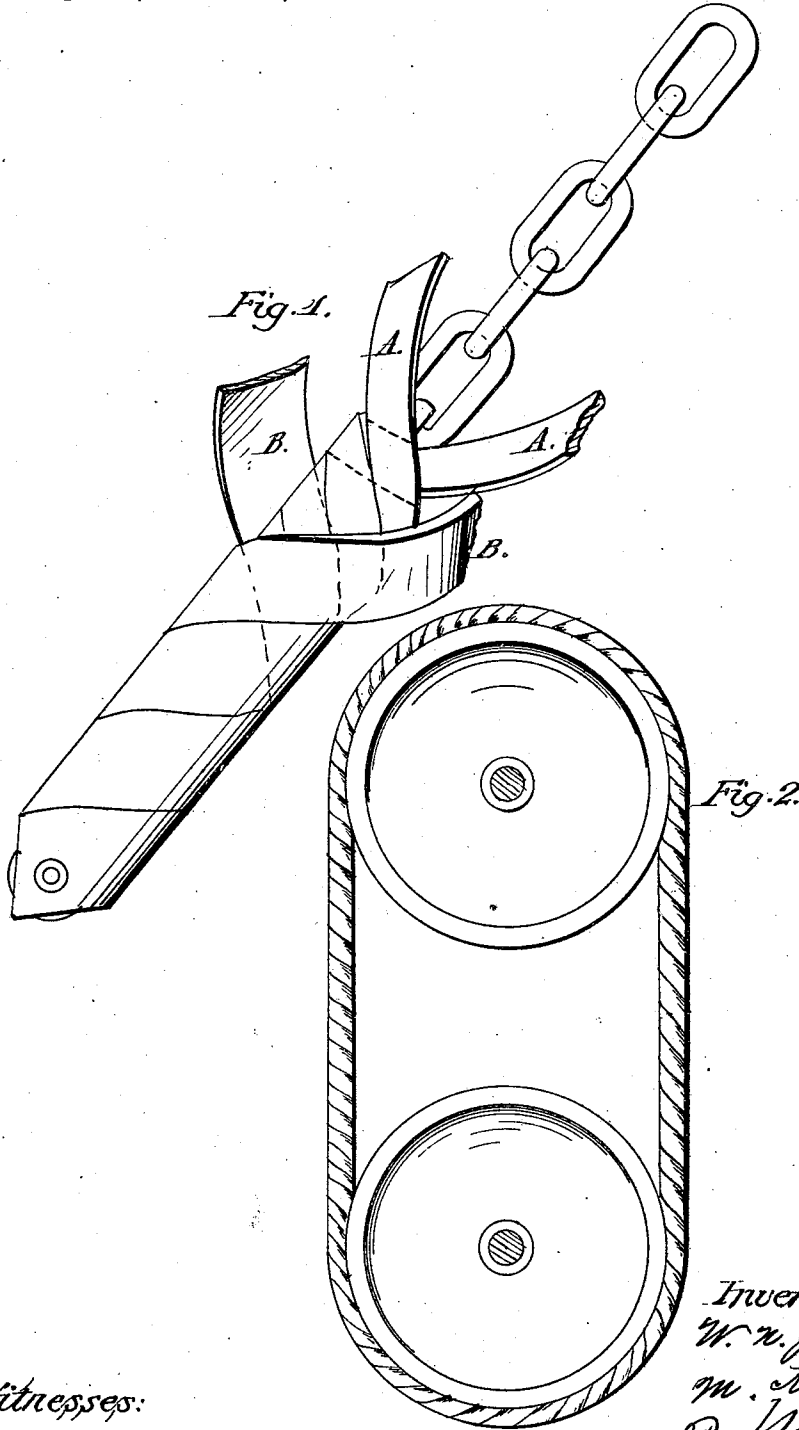


Julian & Kidwacker,

No. 85,830. Chain-Belt. Patented Jan. 12, 1869.



Witnesses:
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WILLIAM N. JULIAN AND MORRIS KIDNOCKER, OF TARLTON,
OHIO.

Letters Patent No. 85,830, dated January 12, 1869.

IMPROVED CHAIN-BELT.

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

To all whom it may concern:

Be it known that we, WILLIAM N. JULIAN and MORRIS KIDNOCKER, of Tarlton, in the county of Pickaway, and State of Ohio, have invented a new and improved Chain-Belt; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a portion of our improved belt, a portion of the leather covering being removed, to show the construction of the belt.

Figure 2 is a drawing illustrating its use.

Similar letters of reference indicate like parts.

The object of this invention is to provide a chain-belt for machinery, which is superior to the ordinary chain-belt heretofore in use.

Our invention consists in wrapping an endless chain or chain-belt with one or more layers of strap or thong-leather.

The chain, when thus protected, will run smoothly without slipping, and with very slight wear, and will seldom get out of repair.

It is particularly desirable as feed-gearing belting for portable saw-mills, for which use it has been found superior to any belt heretofore known to us through a long term of experience.

As shown in the drawings, the chain is enclosed by an inner and outer wrapping of leather thongs, lettered respectively A A and B B, but it is not necessary that

a double wrapping, as there shown, be employed, for a single wrapping, wound close, will answer nearly as well, though the double wrapping would be somewhat preferable under certain conditions.

Each wrapping is composed of two straps or thongs of leather, as shown, which are wound around the chain with a long pitch.

The ends are fastened by rivets, stitching, or in any other suitable manner, and the lengths of the different straps should be, in practice, so arranged that the ends thereof will not all be at the same point on the belt.

We desire to be understood as not limiting ourselves to the use of leather alone, for raw hide is also available for this purpose, and is a desirable substitute.

Canvas of stout texture, or vulcanized rubber, would be also excellent equivalents for this purpose, or braided thongs or strips of these or any other suitable material would answer as equivalents also.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

As a new article of manufacture, the chain-belt for machinery, protected throughout its entire length with strips of leather, or equivalent, wound thereon in the manner described, for the purpose specified.

WM. N. JULIAN.

MORRIS KIDNOCKER.

Witnesses:

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