

A. SPADONE.
Belting.

No. 208,431.

Patented Sept. 24, 1878.

Fig 1.

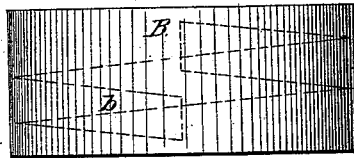


Fig 2.

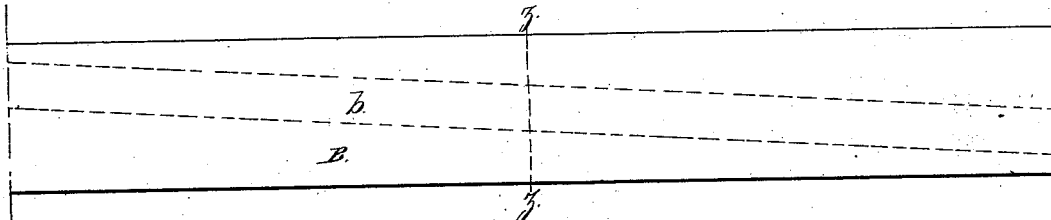
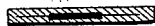


Fig 3.



Witnesses:

Geo. H. Graham.
A. N. Wellington.

Inventor:

Amadeo Spadone

by

Chas W. Forbes
Atty.

UNITED STATES PATENT OFFICE.

AMADEE SPADONE, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN BELTING.

Specification forming part of Letters Patent No. **208,431**, dated September 24, 1878; application filed March 23, 1878.

To all whom it may concern:

Be it known that I, AMADEE SPADONE, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Endless Belting; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 represents a perspective view; Fig. 2, a longitudinal section of a belt embodying my invention, and Fig. 3 a cross-section of the same, showing the intermediate metallic strip.

This invention is especially adapted to belting composed of rubber-coated cloth which is folded or made up in two or more plies; and the invention consists in constructing an endless belt containing a strip of tempered steel, composed of a single piece, and arranged spirally, as shown, and whereby the strength of such belting is increased, the operation improved, and stretching prevented when subjected to tensional strain. This strip is constructed of such width and thickness and coiled at such a pitch, when applied, as to insure the necessary strength and degree of pliability to allow the belt to yield and press equally upon pulleys of various diameters, and with either plain, concave, or convex faces, the elasticity of the strip tending to restore the belt to its original form.

In the employment of rubber-coated cloth the naked strip may be arranged between the plies and the whole compressed between

hot rollers or plates, which will cause the coils to adhere to the inner rubber coating of the outer plies or the external rubber coating of the inner adjacent plies, and which will effectually maintain the strip in its proper position; and, if preferred, the strip may be covered with an unvulcanized rubber cement, or a textile fabric, or both, and subjected to the same process of construction; but the steel strip should be tempered to such a degree of hardness as to withstand the action of the hot rollers or plates without drawing its temper below the degree necessary to maintain its essential qualities.

Having thus fully described my invention, I wish it to be understood that I do not confine myself to the kind of material described of which the belt is composed, nor to the use of tempered steel in the construction of the spiral strip, nor to the method of securing said strip referred to, although I prefer to employ such substances and to construct the same as described; but

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

An endless belt composed of pliable material and provided with an intermediate strip of metal, (preferably of tempered steel,) arranged spirally, as shown.

AMADEE SPADONE.

Witnesses:

L. W. SLOAT,
C. W. FORBES.