

(No Model.)

G. JAQUITH.
DIVING BELT.

No. 308,674.

Patented Dec. 2, 1884.

Fig. 1

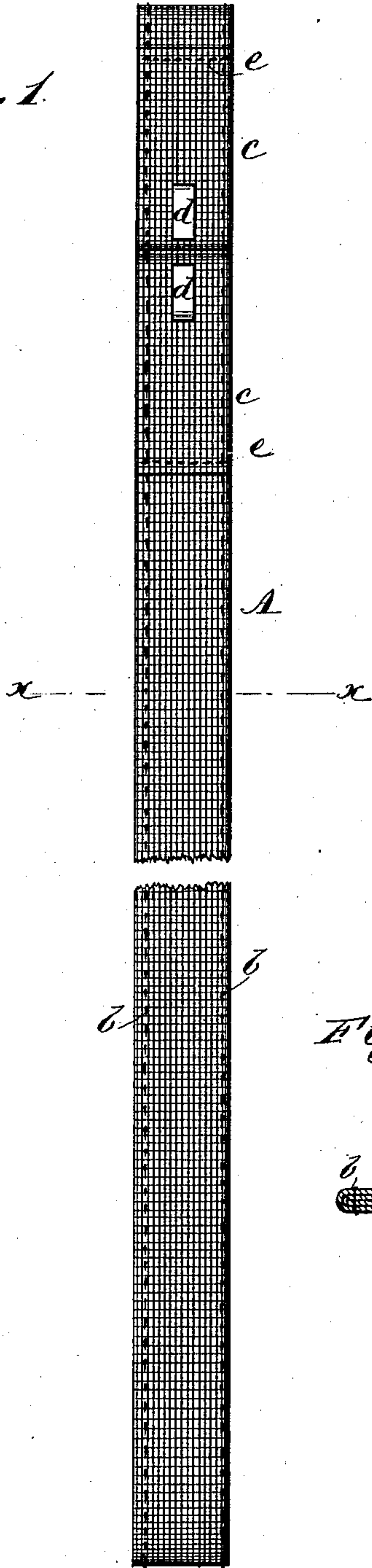


Fig. 2

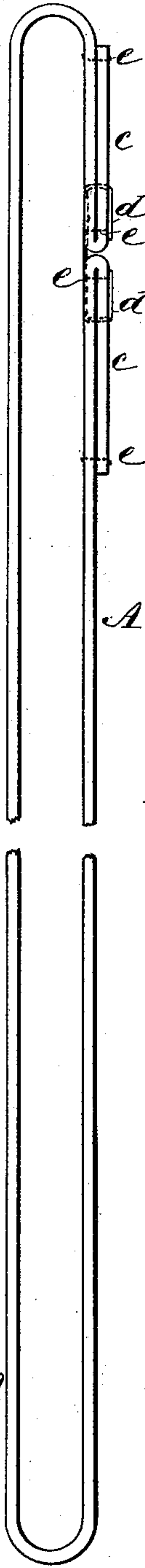


Fig. 3



WITNESSES:

C. Neveu

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BY

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UNITED STATES PATENT OFFICE.

GILMAN JAQUITH, OF MAYSVILLE, KY., ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO HIMSELF AND JANUARY & WOOD, OF SAME PLACE.

DRIVING-BELT.

SPECIFICATION forming part of Letters Patent No. 308,674, dated December 2, 1884.

Application filed July 24, 1883. Renewed October 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, GILMAN JAQUITH, of Maysville, in the county of Mason and State of Kentucky, have invented certain new and
5 useful Improvements in Driving Belts or Bands for Pulleys, of which the following is a full, clear, and exact description.

This invention more particularly relates to ribbon or tape-like bands for driving whirls
10 or small pulleys running at a high velocity, including the whirls on bobbin-spindles of spinning-frames and on other light spindles or shafts when constructed to be driven by flat bands of narrow width.

15 The main objects of the invention are to produce a band of this description which when once strained shall be capable of but little or no further stretch, and shall have a good driving friction-surface; also which, unlike twisted
20 cotton bands, shall be but little or not at all affected by variations in conditions of the weather, and that will present a smooth running-surface at its meeting ends and fastening uniting the same when passing around the
25 pulleys, with increased strength at said ends to prevent them from bursting or being torn apart.

The invention more particularly relates to that description of bands for driving machinery which are composed of several thicknesses
30 of a single piece of woven fabric stitched together; and it consists of a single strip of cotton cloth folded repeatedly in a certain manner, as hereinafter more fully described, with
35 the warp running in the direction of the length of the band, and having its ends doubled upon itself for connection by a clip or hook-shaped fastening, and the whole stitched together to
40 unite the folds and prevent raveling of the ends of the bands, as hereinafter more fully set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

45 Figure 1 represents a broken longitudinal face view of a band embodying my invention; Fig. 2, a broken edge view of the same; and Fig. 3, a transverse section on the line *x x* in
50 Fig. 1 through one of the sides of the band.

A is the band, made of a strip of cotton cloth doubled over upon itself longitudinally to make four thicknesses or folds—as, for instance, by folding it over for one-fourth of its

width from each side, and then where the
55 raw edges meet doubling it upon itself so as to keep the raw edges on the inside to prevent fraying, and afterward uniting the four thicknesses by rows of stitching *b b* along each
60 edge of the band, as shown in Figs. 1 and 3.

Both the folding and the sewing just described may be done by a sewing-machine having suitable attachments, or in any other suitable manner. The warp, as shown in Fig. 1,
65 runs in direction of the length of the band and the weft across it. The meeting-end portions *c c* of the band where united by the fastening *d* are turned over upon the outside of the
70 band, so as to present no obstruction in passing around the pulleys, and are sewed or stitched down, as at *e*. This gives eight thicknesses of material for the ends of the fastening *d* to pass
75 through and hold the meeting ends of the band together, and forms a thick compressible surface for the fastening to embed itself on the
inside of the band, so as to form a smooth running-surface for the band at its united ends
when passing around the pulleys. In this way
80 or by these means the band fully secures the objects sought to be obtained by it, as hereinbefore specified.

The fastening *d* may consist of a thin brass clip bent and projected at its ends from the
inside of the band and its projecting end portions turned down on the outside of the band.
85 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

As an improved article of manufacture, the within-described band for driving whirls and
90 other small pulleys running at a high velocity, the same consisting of a single strip of cotton cloth first folded over for one-fourth of its width from each side, then doubled over
95 longitudinally upon itself in line with the meeting edges of the first folded-over portions, so as to inclose the same and place their raw edges under cover of the bent portions of the
last fold, and the whole being stitched together along each edge of the band, and having its
100 ends folded over and stitched down upon the outside of the body of the band for connection by a clip or fastening, substantially as specified.

GILMAN JAQUITH.

Witnesses:

A. GREGORY,
C. SEDGWICK.