

E. C. C. LAIRD.  
POWER CONVEYING BELT.  
APPLICATION FILED AUG. 7, 1906.

982,073.

Patented Jan. 17, 1911.

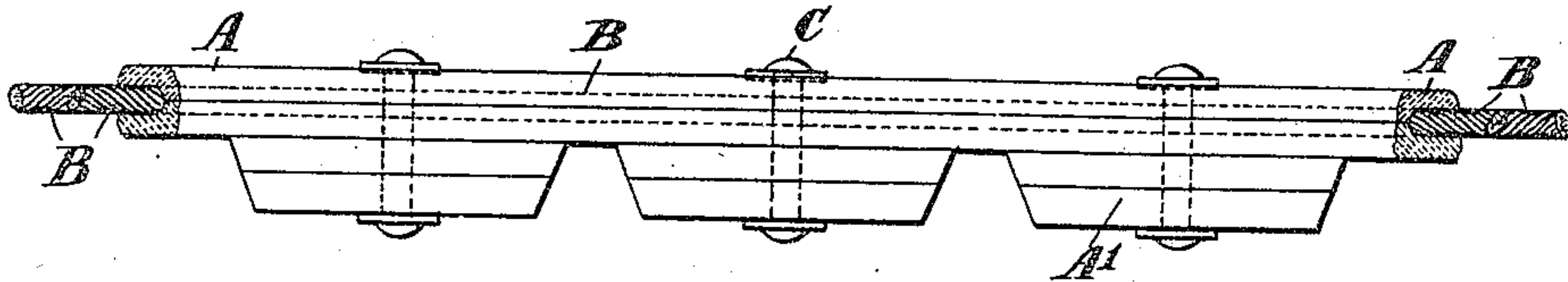


Fig. 1.

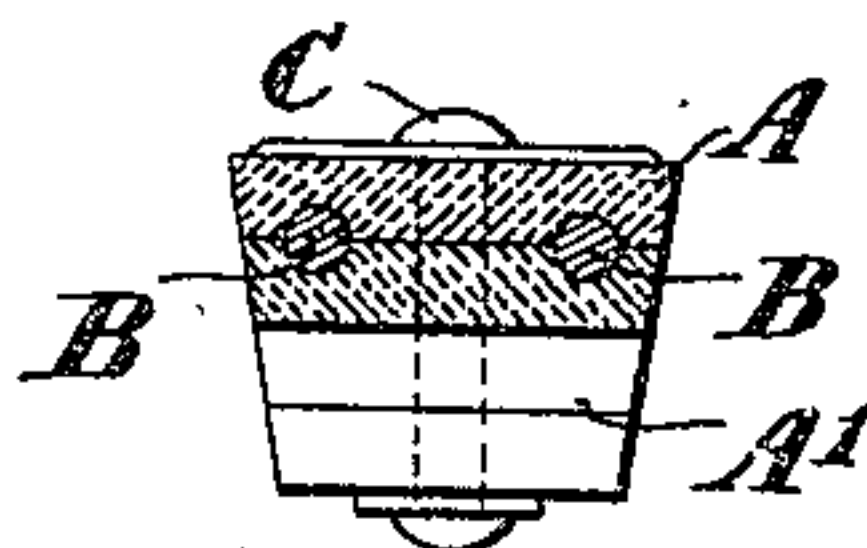


Fig. 2.

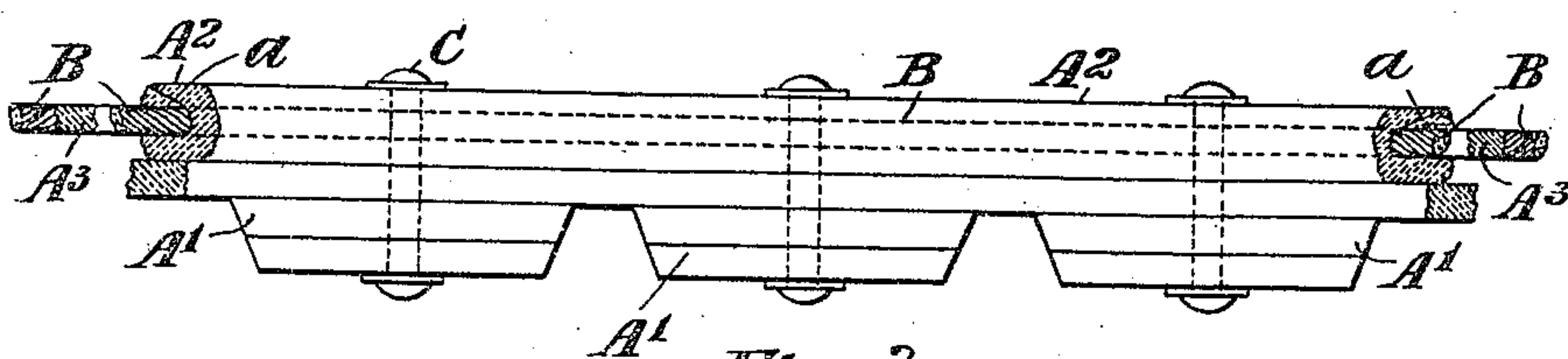


Fig. 3.

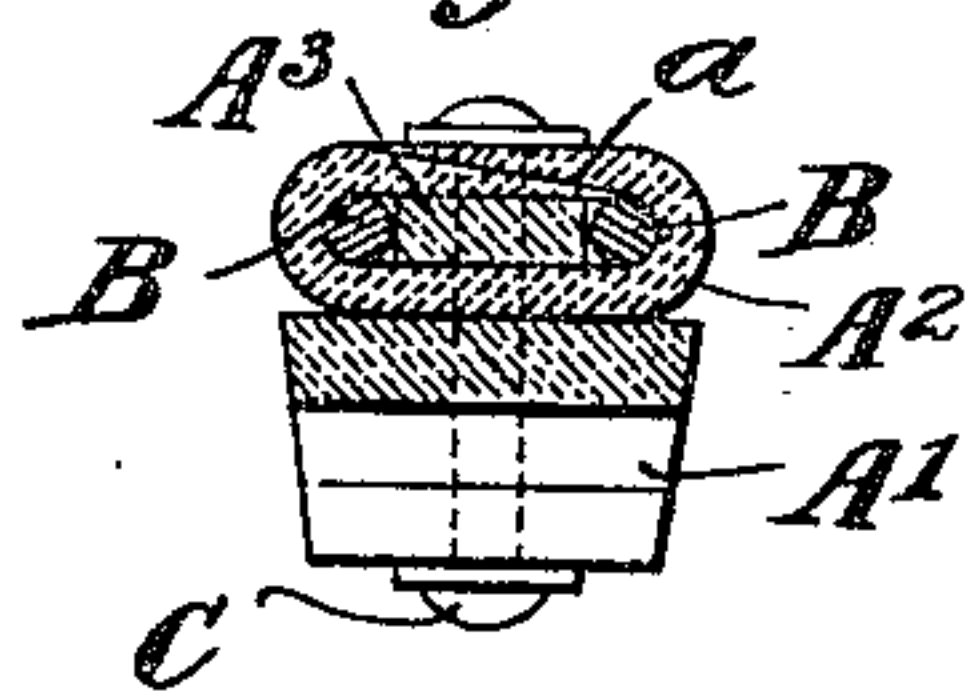


Fig. 4: Ernst Carrie Campbell Laird

WITNESSES

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ATTY

# UNITED STATES PATENT OFFICE.

ERNST CORRIE CAMPBELL LAIRD, OF BALLARAT, VICTORIA, AUSTRALIA.

## POWER-CONVEYING BELT.

982,073.

Specification of Letters Patent.

Patented Jan. 17, 1911.

Application filed August 7, 1906. Serial No. 329,620.

*To all whom it may concern:*

Be it known that I, ERNST CORRIE CAMPBELL LAIRD, a subject of the King of Great Britain and Ireland, residing at Armstrong street, Ballarat, in the State of Victoria, Commonwealth of Australia, have invented an Improved Power-Conveying Belt, of which the following is a specification.

This invention relates to an improved power conveying belt, which has been so designed that it will be, so far as practicable, non-stretching, hence it will be useful for motor cycles, and also for power conveying purposes generally.

The belt is constructed of a combination of flexible woven wire and leather, built up in say three or more bands, plies or strips, and then riveted or sewn together in a substantial manner.

The invention will now be fully described aided by a reference to the accompanying sheet of drawings which illustrate the various forms of belt, similar letters of reference being employed to refer to the same parts throughout the different figures.

Figures 1 and 2 show respectively a side elevation and a section of the driving belt according to this invention. Figs. 3 and 4 are similar views of a modification.

Figs. 1 and 2, show a side view and section of a driving belt constructed of a two-ply leather band A, having the wires B laid in grooves formed in their meeting surfaces, while also two-ply leather strips or pieces A<sup>1</sup> are secured at regular intervals by rivets and washers C along the inside length of belt.

In the modification shown in Figs. 3 and 4, the external leather band is shown formed of thinner leather than the outer bands of the belts already described; said outer band is formed into a casing A<sup>2</sup> for the flexible wires B, which are spaced apart by means of a narrow strip of leather A<sup>3</sup> arranged between the wires in said casing, while the meeting edges of the band are tapered off and lap jointed, and stitched together at a to form said casing.

The belts shown are designed for gripping a grooved pulley or sheave, the leather bands

and strips having their sides beveled or made to a section to fit the groove in said pulley or sheave, while the internal leather pieces or strips A<sup>1</sup> may be of the requisite length and have gaps between them of a size to suit the diameter of pulley in use, and said strips A<sup>1</sup>, as before stated, may be secured to the outer bands A by stitching or by rivets and washers, or by stitching and riveting.

The several plies of leather bands and the wires are also secured together by rivets and washers, or sewn in a substantial manner, or by stitching and riveting, while the flexible wire or wires and the leather bands will have their ends secured together with a fastener, or they may be otherwise secured together in order to make it into a continuous length or belt.

If so desired the belt may be constructed of any number of flexible wires and leather bands and strips to suit different powers required. An advantage in this class of belt is that it will not stretch, and needs no great tension to do its work.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A driving belt comprising an outer band of leather, strips or pieces of leather secured at intervals with gaps between them to the outer band, flexible woven wires carried by the outer band and surrounded thereby, and means for connecting all of said parts together.

2. A driving belt comprising outer bands of leather, strips or pieces of leather secured at intervals with gaps between them to the outer bands, and flexible woven wires carried by the outer bands and entirely inclosed thereby.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNST CORRIE CAMPBELL LAIRD.

Witnesses:

BEDLINGTON WOODCOMB,  
W. J. S. THOMPSON.