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DRIVING BELT
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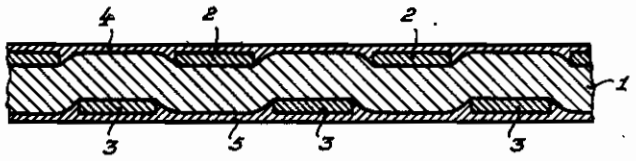

Fig. 1.

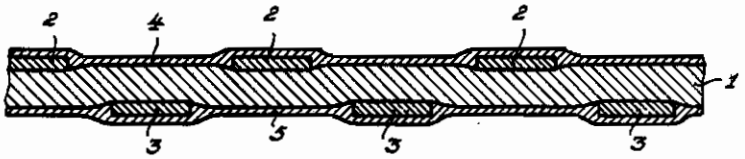

Fig. 2.

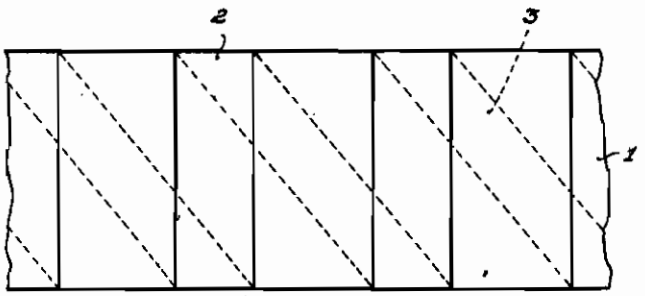

Fig. 3.

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ALIEN PROPERTY CUSTODIAN

ELASTIC RIBBON, ESPECIALLY BELT

Andor Lénart and Joseph Vámos, Budapest, Hungary; vested in the Alien Property Custodian

Application filed September 14, 1940

The invention relates to an elastic ribbon, especially belt, bearing fixed narrow strips arranged across the ribbon and pressed into the material thereof, waving thereby its shape in the unstretched condition. The ribbon or belt according to the invention shows a resilient extensibility in the longitudinal direction. The said waved shape of the belt becomes straightened by longitudinal stretching and the strips rise over the surface thereof making it ribbed and preventing to glide the belt on the pulley. By these means a more efficient transmission of power is obtained.

Preferably the said strips are displaced in relation to another at least with the width of one strip on the two surfaces of the belt.

Instead of the use of a number of short strips a single long narrow strip can be wound across, waving the shape in the unstretched condition of the ribbon after being pressed into the material thereof. The spaces left between the windings are preferably at least the same as the width of the strip.

The surface of the ribbon provided with the said strips or windings is preferably covered with a protecting layer fixed thereon, consisting e.g. of rubber, cords or fabric.

The material of the elastic ribbon as well as that of the narrow strip or strips can be as various as possible. It consists e.g. of fabric or of along arranged cords or of such lines of short cord fragments, all being incorporated in a layer of rubber. In the case of lines of cord fragments the single cord elements of the adjacent lines are displaced in relation to another.

Particulars of the invention will appear throughout the following specification.

In the drawing:—

Figure 1 is a vertical longitudinal section view of the unstretched ribbon;

Figure 2 is a similar view of the same ribbon in the stretched condition thereof;

Figure 3 shows an example of the arrangement of the windings of a narrow strip wound across the ribbon.

The narrow strips **2** and **3**, as being shown in Figures 1 and 2, are fixed on the belt **1** and pressed into the material thereof. If the belt is subjected to stretching in the longitudinal direction, the waved shape thereof becomes straightened and the strips **2** and **3** respectively pressed into the material of the belt rise over the surface thereof as shown in Figure 3. The surface of the belt is covered by the said protecting layer **4** and **5** respectively.

For the production of the ribbon according to the invention preferably cord fragments are used obtained by decomposition of scrap material pneumatic tires. The cord fragments are arranged along in a suitable mould forming lines side by side and one upon another respectively, incorporated in a layer of rubber. The single cord fraagments of the adjacent lines are displaced in relation to another. The said strips are arranged across the two surfaces of the ribbon and the whole is vulcanized under pressure so that the strips become pressed in the material of the belt and wave the shape thereof. The surfaces of the belt are provided with protecting layers e.g. of cords or fabric fixed by sticking or by vulcanisation thereon.

The invention, of course, is not limited neither to the said starting material nor in respect of the process used for the production of the belt.

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