

Title (en)

APPARATUS FOR COMPACTING A CONTINUOUS TEXTILE SUBSTRATE BY MEANS OF ELASTIC BELT

Title (de)

VORRICHTUNG ZUM VERDICHTEN EINES TEXTILEN SUBSTRATS DURCH EIN ELASTISCHES BAND

Title (fr)

DISPOSITIF POUR COMPACTER UN SUBSTRAT TEXTILE PAR UNE COURROIE ÉLASTIQUE

Publication

**EP 3754088 B1 20240717 (EN)**

Application

**EP 20179933 A 20200615**

Priority

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Abstract (en)

[origin: EP3754088A1] The invention relates to an apparatus for compacting a continuous textile substrate (T) by means of elastic belt, comprising:  
- a heatable rotating cylinder (10); - an endless belt (20) movable along a closed path (P) to support and transport the textile substrate (T) in contact with a side surface portion (11) of said heatable rotating cylinder (10), said belt being elastically deformable in elongation; - a roller system (31, 32, 33, 34, 35) on which said belt (20) is wound in a state of pretensioning in elongation, wherein said roller system comprises a plurality of idle return rollers (33, 34, 35) and a plurality of motorized rollers (31, 32) which may be operated so as to slide said belt (20) along said closed path (PC), imposing on said belt an additional tensional state of elongation at a first section (T1) of said path which extends - with respect to a direction of advancement (X) of the belt - upstream of a second section (T2) of said path in which said belt (20) is kept in contact with the rotating cylinder; means (40) for guiding said textile substrate (T) between said belt (20) and said heatable cylinder (10) along said second section (T2) of said path. The apparatus comprises a system for reducing friction coefficient between the belt (20) and the heatable rotating cylinder (10), said system for reducing friction coefficient comprising one or more interposition tapes (61, 62; 63) between belt and cylinder.

IPC 8 full level

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