

Title (en)

EXTENSIBLE BELT AND METHOD OF MANUFACTURING SAME

Publication

EP 0163778 B1 19890322 (DE)

Application

EP 84116493 A 19841229

Priority

DE 3421146 A 19840607

Abstract (en)

[origin: ES8705313A1] A stretchable belt, such as for safety belt restraint systems in vehicles, includes a base material and at least one additional material having a different stress-stretch curve. By providing a base material with higher deformability than the additional material the stress-stretch curve of the belt has a first steeply rising portion where the load is primarily transmitted to the additional material. At a given load point, the additional material abruptly tears, and the load is transmitted to the base material. Thereafter, the stress versus stretch curve continues at a substantially lower angle. In this manner, the belt absorbs a maximum amount of energy for a given maximum load and maximum stretch. The belt may be formed from a single type of raw material, mechanically or thermally treating it to provide different stress versus stretch characteristics for the base material and the additional material.

IPC 1-7

D03D 1/00

IPC 8 full level

B60R 22/12 (2006.01); **A62B 35/00** (2006.01); **D03D 1/00** (2006.01); **D03D 15/00** (2006.01)

CPC (source: EP US)

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