

Title (en)
Steel cord with high elongation at break

Title (de)
Stahlseil mit hoher Bruchdehnung

Title (fr)
Câble d'acier avec allongement à la rupture élevé

Publication
EP 0790349 B1 20000628 (EN)

Application
EP 97200163 A 19970122

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Abstract (en)
[origin: EP0790349A1] A steel cord (10) adapted for the reinforcement of an elastomer comprises steel filaments (12,14) of a pearlitic structure. The steel cord has a plastic and elastic elongation at break of x % and a plastic and elastic elongation capability in the vulcanized elastomer of y %, the values x and y fulfilling following equation : $x + y \geq 100$ which means that the total elongation at break does not reduce considerably after embedding the steel cord into an elastomer. The steel core (10) has a high elongation capability which is largely independent of the structure of the steel cord.
<IMAGE> <IMAGE>

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IPC 8 full level
D07B 1/06 (2006.01); **D07B 5/12** (2006.01)

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Cited by
US6119747A; EP0893282A3; US7337604B2; US10683608B2; US6475636B1; US7562684B2; WO2004048157A1; WO2009144746A1; WO2005014925A1; WO0190478A1; US6883843B2; US7007990B2; EP1655179A1; WO2006048359A1; US6887806B2; US7487803B2; US7111882B2; US8381505B2; EP1454822A2

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