

Title (en)

TWO-LAYERED METAL CORD RUBBERISED IN SITU BY AN UNSATURATED THERMOPLASTIC ELASTOMER

Title (de)

MIT EINEM UNGESÄTTIGTEN THERMOPLASTISCHEN ELASTOMER IN-SITU GUMMIERTES ZWEISCHICHTIGES METALLSEIL

Title (fr)

CÂBLE MÉTALLIQUE À DEUX COUCHES, GOMMÉ IN SITU PAR UN ÉLASTOMÈRE THERMOPLASTIQUE INSATURÉ.

Publication

**EP 2783038 A1 20141001 (FR)**

Application

**EP 12787430 A 20121114**

Priority

- FR 1160671 A 20111123
- EP 2012072540 W 20121114

Abstract (en)

[origin: WO2013075984A1] The invention relates to a metal cord (C-1) having two concentric layers (Ci, Ce) with an M+N structure, comprising a first internal layer or core (Ci) consisting of M wire(s) (10) of diameter d1, where M varies from 1 to 4, said core being surrounded by a second, helicoid external layer (Ce) consisting of N wires (11) of diameter d2, wherein at least some of the gaps in the cord located between the wires of the different layers contain a filling rubber (13) composed of an unsaturated thermoplastic elastomer, in particular a styrenic thermoplastic elastomer (TPS), such as an SBS or SIS block copolymer. Such a thermoplastic elastomer, implemented in a molten state, does not cause any unwanted sticking problems if the filling rubber overruns outside the cord after production; the unsaturated and therefore (co)vulcanisable character of said thermoplastic elastomer provides excellent compatibility with diene rubber matrices, such as natural rubbers that are usually used as calendering rubber in the metal fabrics intended for reinforcing tyres.

IPC 8 full level

**D07B 1/06** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2013075984A1

Citation (examination)

WO 2012104280 A1 20120809 - MICHELIN & CIE [FR], et al

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DOCDB simple family (application)

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