

Title (en)
METAL SPOOL

Title (de)
METALLSPULE

Title (fr)
BOBINE EN MÉTAL

Publication
EP 3851402 A1 20210721 (EN)

Application
EP 20152346 A 20200117

Priority
EP 20152346 A 20200117

Abstract (en)
The invention relates to a metal spool (100) for use in the tire industry as carrier for steel tire cord. More in particular the spool (100) is suited for use on a tire cord creel provided with magnetic spool holders. The spool (100) is designed to carry steel monofilaments that are currently being pursued for reinforcement of the belt layer of a tire. The spool (100) comprises a larger than standard core (104) to which two flanges (102, 102') are welded. At least the flanges (102, 102') are made of ferromagnetic metal sheet that is thicker than the metal sheet used in prior art spools and this for reasons of strength. The flanges (102, 102') The flanges have an annular attraction zone (110) for contacting the magnet spool holder. The flanges (102, 102') are provided with a magnetic reduction means to reduce magnetic attraction by the magnet spool holder. The magnetic attraction reduction means can be implemented in different ways as exemplified in the different embodiments of the invention.

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CPC (source: EP)
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Citation (applicant)
US 3396919 A 19680813 - VAYDA WILLIAM C

Citation (search report)
• [XD] US 3396919 A 19680813 - VAYDA WILLIAM C
• [XD] US D504806 S 20050510 - BASARAN MURAT [CN], et al
• [XA] US 5460333 A 19951024 - VANHUYSE HERVE [BE]
• [XI] WO 2015104315 A1 20150716 - BEKAERT SA NV [BE]

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US11401131B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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