

Title (en)
Apparatus and method for packaging tyres

Title (de)
Vorrichtung und Verfahren zum Verpacken von Reifen

Title (fr)
Dispositif et procédé d'emballage de pneumatiques.

Publication
EP 1671883 A1 20060621 (FR)

Application
EP 05111625 A 20051202

Priority
FR 0413470 A 20041216

Abstract (en)
The device has a pre-conditioning station (200) with a tires lot (L) and a station (300) compressing the lot. A package unit (400) has application systems (410, 420) to tension bands (BY, BX) around the lot, by rolling around a horizontal axis (YY') perpendicular to axis (XX'), and by variable pitch helical winding around axis perpendicular to the axis (XX'), while maintaining the lot in compression between conveyors (430, 440). Independent claims are also included for the following: (A) a method for packing lot of tires (B) a packed lot of tires in which covers are arranged.

IPC 8 full level
B65B 11/00 (2006.01); **B65B 63/02** (2006.01); **B65D 19/44** (2006.01); **B65D 85/07** (2017.01)

CPC (source: EP US)
B65B 11/008 (2013.01 - EP US); **B65B 25/24** (2013.01 - EP US); **B65B 63/02** (2013.01 - EP US)

Citation (applicant)
• US 5259325 A 19931109 - PILGER JOSEF [DE]
• US 5092106 A 19920303 - DOSTER JOHN [US], et al
• US 6527499 B2 20030304 - LEIMBACH WENDELL B [US], et al
• FR 2243115 A1 19750404 - CONTINENTAL GUMMI WERKE AG [DE]

Citation (search report)
• [AD] FR 2243115 A1 19750404 - CONTINENTAL GUMMI WERKE AG [DE]
• [AD] US 2001028838 A1 20011011 - LEIMBACH WENDELL B [US], et al
• [AD] US 5092106 A 19920303 - DOSTER JOHN [US], et al
• [A] US 4858415 A 19890822 - HAKE LEROY [US]
• [A] EP 1452449 A1 20040901 - LOEFFLER VERPACKUNGSTECHNIK GM [DE]
• [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12 29 October 1999 (1999-10-29)
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 21 3 August 2001 (2001-08-03)

Cited by
FR2930491A1; US9139406B2; WO2017178086A1; WO2009130295A1; WO2011135404A1; WO2017178088A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1671883 A1 20060621; EP 1671883 B1 20080402; AT E391076 T1 20080415; BR PI0505504 A 20060912; CA 2529120 A1 20060616; CA 2529120 C 20131029; CN 1789086 A 20060621; CN 1789086 B 20110406; DE 602005005770 D1 20080515; DE 602005005770 T2 20090430; FR 2879565 A1 20060623; FR 2879565 B1 20070209; JP 2006168833 A 20060629; JP 5133520 B2 20130130; MX PA05013463 A 20060619; US 2006156694 A1 20060720; US 7536844 B2 20090526

DOCDB simple family (application)
EP 05111625 A 20051202; AT 05111625 T 20051202; BR PI0505504 A 20051214; CA 2529120 A 20051206; CN 200510132018 A 20051216; DE 602005005770 T 20051202; FR 0413470 A 20041216; JP 2005381053 A 20051216; MX PA05013463 A 20051209; US 29743805 A 20051209