

Title (en)  
MACHINE FOR TEARING BEADS FROM TYRES

Title (de)  
MASCHINE ZUM ENTFERNEN DER IN DEN REIFEN INTEGRIERTEN WULSTDRÄHTEN

Title (fr)  
MACHINE POUR ARRACHER LES TRINGLES INTEGREES DANS LES PNEUMATIQUES

Publication  
**EP 1183135 A1 20020306 (FR)**

Application  
**EP 00938864 A 20000531**

Priority  
• FR 0001500 W 20000531  
• FR 9907376 A 19990604

Abstract (en)  
[origin: US2002088557A1] The machine for tearing beads from the rims of pneumatic tires comprises a screw-jack traction element (2) whereby the rod thereof is mounted in such a way that it can be displaced in a guided linear manner in a supporting frame receiving the stem of the screw-jack in a fixed position and the free end of said rod is fitted with hooking means (3) extending through a slot (5) in a vertical bearing plate (6) of said frame. The pneumatic tire is disposed in a vertical position whereby the surface thereof rests against one of the surfaces of the plate, whereby the rim of the tire cooperates with the hooking means (3) and the slot (5) is made of two asymmetrical cross openings, defining a horizontal opening (5b) and a vertical opening (5a). The horizontal opening is symmetrically disposed on both sides of the vertical opening to enable the bead to be torn off via the horizontal opening when the rod is gradually withdrawn. The invention is characterized in that the plate (6), in combination with the profiled slot, is fitted with two parallelipedic profiled blocks (7 and 8) which are arranged opposite each other and which are mounted in such a way that they can slide in a guided linear manner in the opposite direction to elastic recall elements in order to be placed in a joined contact position corresponding to temporary closure of the vertical slot (5). The contact surfaces of the blocks (7 and 8) are profiled in such a way that they can be moved apart by introducing the hooking means (3) of the screw-jack (2). Said surfaces have a horizontal slot (7b, 8b) which corresponds with the branches of the horizontal opening (5b) of the slot (5) of the plate (6).

IPC 1-7  
**B26D 1/00; B29B 17/02**

IPC 8 full level  
**B26D 1/00** (2006.01); **B29B 17/02** (2006.01); **B29B 17/04** (2006.01)

CPC (source: EP US)  
**B26D 3/005** (2013.01 - EP US); **B29B 17/02** (2013.01 - EP US); **B29B 17/04** (2013.01 - EP US); **B29K 2021/00** (2013.01 - EP US); **B29K 2705/12** (2013.01 - EP US); **B29L 2030/00** (2013.01 - EP US); **Y02W 30/62** (2015.05 - EP US); **Y10T 156/1189** (2015.01 - EP US); **Y10T 156/1972** (2015.01 - EP US)

Citation (search report)  
See references of WO 0074904A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 2002088557 A1 20020711**; AU 5410700 A 20001228; EP 1183135 A1 20020306; FR 2794396 A1 20001208; FR 2794396 B1 20010803; WO 0074904 A1 20001214

DOCDB simple family (application)  
**US 99873201 A 20011130**; AU 5410700 A 20000531; EP 00938864 A 20000531; FR 0001500 W 20000531; FR 9907376 A 19990604