

## Title (en)

DRIVEN ROLLER ELEMENT AND DRIVE UNIT COMPRISING SUCH A ROLLER ELEMENT

## Title (de)

ANGETRIEBENES ROLLENELEMENT UND ANTRIEBSEINHEIT MIT EINEM SOLCHEN ROLLENELEMENT

## Title (fr)

ÉLÉMENT À ROULEAUX ENTRAÎNÉ ET UNITÉ D'ENTRAÎNEMENT COMPRENANT UN TEL ÉLÉMENT

## Publication

**EP 1778568 A2 20070502 (DE)**

## Application

**EP 05740398 A 20050520**

## Priority

- CH 2005000289 W 20050520
- CH 8852004 A 20040521

## Abstract (en)

[origin: WO2005113392A2] The invention relates to a roller element (10) which has a central body (1) and a roller unit (2). Said roller unit (2) is mounted so as to circulate on a non-circular race (21) about the central body (1) and so as to be mobile with respect to the central body (1) by the rolling movement of the rollers (3) of the roller unit (2) on the central body (1). The rollers (3) are provided on the exterior of the roller unit (2) for rolling off on a rigid counter body (5). The roller element (10) is provided with drive means (6) which engage with the roller unit (2) and drive the same in relation to the central body (1). The roller unit (2) is directly driven by engagement of the drive means (6) between the rollers (3) and is pulled or pushed on the race (21) about the central body (1). At least in those sections where the central body (1) puts pressure on the rollers (3) with regard to the counter body (5), the rollers (3) roll off on the central body (1), thereby propelling on their other face the roller element (10) as a whole in relation to the counter body (5).

## IPC 8 full level

**B65G 7/00** (2006.01); **B61B 3/02** (2006.01); **B62B 5/00** (2006.01); **B62D 55/08** (2006.01); **B65G 7/04** (2006.01); **B65G 23/16** (2006.01); **F16C 29/06** (2006.01); **F16H 19/00** (2006.01)

## CPC (source: EP US)

**B65G 7/04** (2013.01 - EP US); **B65G 23/16** (2013.01 - EP US); **F16C 29/0614** (2013.01 - EP US); **F16C 33/50** (2013.01 - EP US); **F16H 19/06** (2013.01 - EP US); **F16H 2019/0613** (2013.01 - EP US)

## Citation (search report)

See references of WO 2005113392A2

## Cited by

EP2289823A1

## 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 MC NL PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**WO 2005113392 A2 20051201**; **WO 2005113392 A3 20060216**; AT E518790 T1 20110815; AT E534594 T1 20111215; AU 2005245045 A1 20051201; AU 2005245045 B2 20101118; CA 2568985 A1 20051201; CA 2568985 C 20130625; CH 703149 B1 20111130; DK 2123577 T3 20111031; EP 1778568 A2 20070502; EP 2123576 A1 20091125; EP 2123576 B1 20111123; EP 2123577 A1 20091125; EP 2123577 B1 20110803; EP 2266896 A1 20101229; ES 2371044 T3 20111226; ES 2378125 T3 20120409; JP 2007537912 A 20071227; JP 4994229 B2 20120808; PL 2123577 T3 20111230; US 2007267278 A1 20071122; US 7628266 B2 20091208

## DOCDB simple family (application)

**CH 2005000289 W 20050520**; AT 09010574 T 20050520; AT 09010575 T 20050520; AU 2005245045 A 20050520; CA 2568985 A 20050520; CH 8852004 A 20040521; DK 09010575 T 20050520; EP 05740398 A 20050520; EP 09010574 A 20050520; EP 09010575 A 20050520; EP 10010480 A 20050520; ES 09010574 T 20050520; ES 09010575 T 20050520; JP 2007516933 A 20050520; PL 09010575 T 20050520; US 56922105 A 20050520