

Title (en)
HYBRID V-BELT FOR HIGH PERFORMANCE DRIVES

Title (de)
HYBRIDKEILRIEMEN FÜR HOCHLEISTUNGSANTRIEBE

Title (fr)
COURROIE TRAPEZOIDALE HYBRIDE POUR SYSTEMES D'ENTRAINEMENT A HAUTE PERFORMANCE

Publication
EP 1337766 A1 20030827 (DE)

Application
EP 01990397 A 20011108

Priority
• DE 10057381 A 20001118
• EP 0112898 W 20011108

Abstract (en)
[origin: WO0240889A1] The invention relates to a hybrid V-belt (2) for high performance drives. A hybrid V-belt (2) is comprised of a traction support (4) and of a multitude of supporting elements (6) arranged thereon. The aim of the invention is to improve the engagement between the traction support (4) and the supporting elements (6) and to ensure a firm seating of the supporting element (6) on the traction support (4). The at least two-part supporting elements (6) are each comprised of an outer supporting body (14), which is in contact with conical discs when viewed in the direction of the friction flanks (18), and of an inner supporting body (16). The transmission of force between the inner supporting body (16) and the traction support (4) is realized by concave and convex elevations (22a, 22b), which engage with one another and which are provided on the traction support (4) and on the outer (14) and inner supporting bodies (16) or is realized by the non-positive transmission between the traction support (4) and the outer (14) and inner supporting bodies (16). The inventive V-belt is suited, in particular, for the continuous conversion of rotational speed and torque in automotive applications.

IPC 1-7
F16G 5/16

IPC 8 full level
F16G 5/00 (2006.01); **F16G 5/06** (2006.01); **F16G 5/08** (2006.01); **F16G 5/16** (2006.01)

CPC (source: EP)
F16G 5/166 (2013.01)

Citation (search report)
See references of WO 0240889A1

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

DOCDB simple family (publication)
WO 0240889 A1 20020523; WO 0240889 A9 20040513; DE 10057381 A1 20020523; EP 1337766 A1 20030827; JP 2004514099 A 20040513

DOCDB simple family (application)
EP 0112898 W 20011108; DE 10057381 A 20001118; EP 01990397 A 20011108; JP 2002543177 A 20011108