

Title (en)
Tractionbar used as chord for a bridge

Title (de)
Zugstab zur Verwendung als Gurt für Brücken

Title (fr)
Bar de traction pour membrure de pont

Publication
EP 0967330 A3 20000503 (DE)

Application
EP 99109576 A 19990514

Priority
DE 19828835 A 19980627

Abstract (en)
[origin: DE19828835C1] The tie rod structure has an adhesive bonded shaft zone (18). with a rectangular cross section for the compound fiber (6) and metal material (10) sections, at the shaft zone, with an identical cross section run. The rod section (18) is longer than the thickness of the tie rod by 50:1, at the rod section, and the rod structure for the compound fiber and metal sections has a cutting edge shape at the thin sides. Two or more separate belts are bonded together to form double or multiple belts, using a heat setting adhesive on a woven carrier material at min. 120 deg C. The compound fiber section is mostly of carbon fibers with a longitudinal orientation.

IPC 1-7
E01D 1/00; **E01D 15/12**; **E01D 101/30**; **E01D 101/40**

IPC 8 full level
E01D 1/00 (2006.01); **E04C 5/08** (2006.01)

CPC (source: EP US)
E01D 1/00 (2013.01 - EP US); **E04C 5/085** (2013.01 - EP US); **E01D 2101/30** (2013.01 - EP US); **E01D 2101/40** (2013.01 - EP US); **Y10T 403/7045** (2015.01 - EP US)

Citation (search report)

- [A] FR 2683559 A1 19930514 - UNION TRAVAUX [FR], et al
- [A] FR 2409449 A1 19790615 - WESTLAND AIRCRAFT LTD [GB]
- [A] US 3754293 A 19730828 - WAGNER G, et al

Cited by
DE102012221405A1; WO03064789A1

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)
DE 19828835 C1 19990729; EP 0967330 A2 19991229; EP 0967330 A3 20000503; EP 0967330 B1 20040107; US 6374445 B1 20020423

DOCDB simple family (application)
DE 19828835 A 19980627; EP 99109576 A 19990514; US 33923799 A 19990624