

Title (en)

Rotary coupler assembly for railway vehicle.

Title (de)

Drehbare Kupplungseinrichtung für Schienenfahrzeuge.

Title (fr)

Ensemble d'attelage rotatif pour des véhicules ferroviaires.

Publication

EP 0475632 A1 19920318 (EN)

Application

EP 91307855 A 19910828

Priority

US 58266790 A 19900914

Abstract (en)

A rotary railway coupler (10) is provided having compound fillets (94, 96) of variable increasing radii of curvature inserted between the shank (84) and the butt end (54) of the coupler (10). The compound fillets (94, 96) reduce the stress concentration between the shank (84) and the butt end (54) of the coupler (10) by distributing the stress over a greater curved surface area in order to decrease the possibility of fatigue cracking and failure at the transition surface between the coupler shank (84) and butt end (54). The compound fillet (94, 96) may also be arranged to undercut the surfaces (78, 80, 86, 88) of the coupler shank (84) and butt end (54) in order to reduce metal build-up at this location. <IMAGE>

IPC 1-7

B61G 1/38; **B61G 3/04**

IPC 8 full level

B61G 1/10 (2006.01); **B61G 1/38** (2006.01); **B61G 3/04** (2006.01)

CPC (source: EP KR)

B61G 1/38 (2013.01 - EP); **B61G 3/04** (2013.01 - EP); **B61G 3/16** (2013.01 - KR)

Citation (search report)

- [A] US 4420088 A 19831213 - METZGER WILLIAM J [US]
- [A] US 3250403 A 19660510 - TACK CARL E, et al

Cited by

US7069094B2; AU2010226880B2

Designated contracting state (EPC)

ES FR GB SE

DOCDB simple family (publication)

EP 0475632 A1 19920318; AU 7736091 A 19920319; BR 9102757 A 19920428; CA 2043457 A1 19920315; EG 19469 A 19950430; JP H04230468 A 19920819; KR 920006183 A 19920427; KR 950001453 B1 19950224; MX 9100739 A 19920504; PT 98969 A 19931029; RO 111047 B1 19960628; ZA 914030 B 19920226; ZW 6091 A1 19911016

DOCDB simple family (application)

EP 91307855 A 19910828; AU 7736091 A 19910527; BR 9102757 A 19910701; CA 2043457 A 19910529; EG 52091 A 19910831; JP 23452791 A 19910913; KR 910010784 A 19910627; MX 9100739 A 19910820; PT 9896991 A 19910913; RO 14839291 A 19910913; ZA 914030 A 19910528; ZW 6091 A 19910527