

Title (en)

SWITCH INCLUDING A FROG COMPRISING A PRINCIPAL AND A SECONDARY MOVABLE TONGUE

Publication

EP 0343150 A3 19900613 (DE)

Application

EP 89890147 A 19890518

Priority

AT 134088 A 19880520

Abstract (en)

[origin: EP0343150A2] In a switch (1) having a frog comprising a principal and a secondary moving tongue (3, 4), the principal and secondary tongues (3, 4) are formed using thick-web standard rail sections and shallower asymmetric blade sections are arranged as outer wing rails (5, 6) opposite the thick-web standard rail sections. <??>Preferably, the height of the shallower asymmetric blade sections (5, 6) is at the same time less than the height of the thick-web standard rail sections of the frog point (3, 4) by at least the height of the rail foot (9, 18) of the thick-web standard rail sections of the frog point (3, 4). <IMAGE>

IPC 1-7

E01B 7/14

IPC 8 full level

E01B 7/14 (2006.01)

CPC (source: EP US)

E01B 7/14 (2013.01 - EP US)

Citation (search report)

- [YD] DE 1911160 B1 19700716 - KRUPP AG HUETTENWERKE
- [Y] CH 469141 A 19690228 - OESTERR ALPINE MONTAN [AT]
- [A] DE 488452 C 19300106 - KRUPP AG
- [A] FR 2339706 A1 19770826 - ABBAYE ATEL CONST [FR]
- [A] FR 1547338 A 19681122 - KLOECKNER WERKE AG

Cited by

WO2014033512A1; BE1020879A4; DE19901949A1; DE19901949C2; AT506269A1; AT506269B1; DE3828921C3; AT513323A1; AU2013308156B2; EP2487293A1; US8746630B2; WO2009089558A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0343150 A2 19891123; EP 0343150 A3 19900613; EP 0343150 B1 19921230; AT 390084 B 19900312; AT A134088 A 19890815; AT E84089 T1 19930115; CA 1323013 C 19931012; DE 58903144 D1 19930211; ES 2038001 T3 19930701; FI 892447 A0 19890519; FI 892447 A 19891121; FI 92504 B 19940815; FI 92504 C 19941125; GR 3007447 T3 19930730; NO 173748 B 19931018; NO 173748 C 19940126; NO 892031 D0 19890519; NO 892031 L 19891121; SU 1724020 A3 19920330; US 4953814 A 19900904

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EP 89890147 A 19890518; AT 134088 A 19880520; AT 89890147 T 19890518; CA 600214 A 19890519; DE 58903144 T 19890518; ES 89890147 T 19890518; FI 892447 A 19890519; GR 930400634 T 19930323; NO 892031 A 19890519; SU 4614008 A 19890517; US 35302289 A 19890517