

Title (en)
CLAMPING DEVICE USING TOGGLE LINKS

Publication
EP 0243599 A3 19890802 (DE)

Application
EP 87102497 A 19870221

Priority
DE 3613644 A 19860423

Abstract (en)
[origin: EP0243599A2] Clamping device using toggle links, especially for use in motor- vehicle body construction, an axially adjustable part connected to the toggle link being driven by an electric motor. As a result, a pressure medium for actuating the axially adjustable part, for example compressed air or hydraulic oil, is no longer required.

IPC 1-7
B25B 5/12

IPC 8 full level
B25B 5/12 (2006.01); **B25B 11/00** (2006.01)

CPC (source: EP)
B25B 5/12 (2013.01)

Citation (search report)
• [X] DD 138643 A1 19791114 - ZIEMANN GERD
• [XP] DE 3638526 C1 19870730 - STA CO METTALLERZEUGNISSE GMBH
• [E] EP 0255853 A2 19880217 - DOVER CORP [US]
• [Y] DE 2117550 A1 19721019
• [Y] GB 611873 A 19481104 - HAROLD JACKSON
• [A] DE 2739150 A1 19790315 - BETZING ULLRICH
• [AD] DE 2222686 B2 19800612
• [A] US 4137784 A 19790206 - GRIFFIN JAMES A

Cited by
DE19930990C1; FR2776858A1; EP1088623A3; EP0255853A3; EP1149665A3; EP1123779A1; FR2804929A1; EP1201370A3; EP2452761A3; EP0982099A3; DE102012103921A1; US9421599B2; US6471199B2; US6726194B2; US6456026B1; US7066459B2; US6695359B2; US6354580B1; WO03011528A1; WO9950944A1; WO03086711A1

Designated contracting state (EPC)
ES FR GB IT SE

DOCDB simple family (publication)
EP 0243599 A2 19871104; EP 0243599 A3 19890802; EP 0243599 B1 19920115; DE 3613644 A1 19871029; DE 3613644 C2 19880128; ES 2027975 T3 19920701; JP S62271680 A 19871125

DOCDB simple family (application)
EP 87102497 A 19870221; DE 3613644 A 19860423; ES 87102497 T 19870221; JP 9549287 A 19870420