

Title (en)
HYDRAULIC RAM COMPRISING SQUARE-SECTION LOCKING WIRES

Title (de)
HYDRAULIKSTEMPEL MIT RECHTECKIGEN SICHERUNGSDRÄHTEN

Title (fr)
VÉRIN HYDRAULIQUE PRÉSENTANT DES FILS DE SECURITÉ À SECTION RECTANGULAIRE

Publication
EP 2147191 A2 20100127 (DE)

Application
EP 08734477 A 20080409

Priority
• DE 2008000598 W 20080409
• DE 102007018021 A 20070417

Abstract (en)
[origin: US2010119311A1] A hydraulic prop 1 is provided for use in underground mining and tunnel construction and is to be used above all in the shield support. In this shield support or in the hydraulic prop 1, the exterior pipe 15 having the foot connection part 16 and the handle 17 and the interior pipe 19 having the head plate 20 are effectively connected together via spring steel wire ties 35 which are disposed or are to be disposed in corresponding connecting grooves 36, 37, 38 or 39, 40, 41 such that in the transition region 42 sufficiently high forces can be transferred so as to ensure a connection between the components which is effective and remains effective. A setting pressure of 600 t can be realised at about 700 bar with the corresponding equipment, wherein in an advantageous manner this particular connecting technique permits the use of high-strength pipes which results in considerably thinner-walled pipes.

IPC 8 full level
E21D 15/16 (2006.01); **E21D 15/44** (2006.01)

CPC (source: EP US)
E21D 15/44 (2013.01 - EP US); **Y10T 403/32491** (2015.01 - EP US)

Citation (search report)
See references of WO 2008125082A2

Designated contracting state (EPC)
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Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
US 2010119311 A1 20100513; **US 8297888 B2 20121030**; AT E474126 T1 20100715; AU 2008238408 A1 20081023; AU 2008238408 B2 20130801; DE 102007018021 A1 20081023; DE 502008000961 D1 20100826; EP 2147191 A2 20100127; EP 2147191 B1 20100714; PL 2147191 T3 20101231; WO 2008125082 A2 20081023; WO 2008125082 A3 20090205

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