

Publication

EP 0718057 A3 19960710

Application

EP 95119901 A 19951216

Priority

DE 4446506 A 19941225

Abstract (en)

[origin: EP0718057A2] Hollow bodies, partic. the ends of pipes, are enlarged with more than two expanding jaws (7) of sector shape, arranged about an axis (A). The jaws are separated by gaps (14) and have partly cylindrical working faces (13). On either side of each gap, edges (7c) of the jaws running parallel to the axis are broken, pref. by bevels. Pref. the sector-shaped end edges (7f) are also broken. The opening angle between two adjacent jaws is 40-90 deg., pref. 50-70 deg. Jaws are pref. precision cast and are expanded by a mandrel (4).

IPC 1-7

B21D 41/02

IPC 8 full level

B21D 41/02 (2006.01)

CPC (source: EP)

B21D 41/02 (2013.01)

Citation (search report)

- [YA] US 4753101 A 19880628 - SHULTZ WILLIAM E [US]
- [YA] WO 8800503 A1 19880128 - LIND HEATHER JOAN [AU]
- [DA] DE 4220794 A1 19940105 - WIRSBO ROHRPROD UND VERTR GMBH [DE]
- [Y] HEINRICH MAURI: "Der Vorrichtungsbau - Einteilung, Aufgaben und Elemente der Vorrichtungen", SPRINGER-VERLAG, BERLIN

Cited by

DE202012100361U1; DE102010004426A1; WO2013113508A1; EP1938950A1; EP2258537A1; CN104624825A; DE19963885C1; US2013192331A1; DE19924695A1; DE19924695C2; DE102010004426B4; EP0878287A1; CN109531980A; AU2013214495A1; CN104093544A; AU2013214495C1; DE102012100894A1; CN104093506A; RU2636428C2; CN116037784A; US11819902B2; US11633775B2; US7800224B2; DE202011107262U1; US9579708B2; WO2013113509A1; FR2910828A1; EP2226182A3; EP2332716A3; US9327337B2; US8517715B2; US8763439B2; US9914260B2; US11596999B2; US11779990B2; US10130985B2; US10843250B2; WO2011035840A2; US8801424B2; US9862137B2; US9993961B2; US10926451B2; US11648727B2; US12023849B2; EP2226182A2; EP2332716A2; US8303295B2; US10000007B2; US10946576B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0718057 A2 19960626; EP 0718057 A3 19960710; DE 4446506 A1 19960627

DOCDB simple family (application)

EP 95119901 A 19951216; DE 4446506 A 19941225