Title (en)
  SHRINKING METHOD

Title (de)
  EINSCHNÜRUNGSVERFAHREN

Title (fr)
  PROCEDE DE RETREINT

Publication
  EP 0737114 B1 20020327 (FR)

Application
  EP 95939312 A 19951102

Priority
  • FR 9501438 W 19951102
  • FR 9413063 A 19941102

Abstract (en)
  [origin: FR2726208A1] A method for shrinking a ring (14) fitted over the free end (10a) of a flexible tube (10) on a rigid tubular member (12). The method uses a shrinking die (16) with an axial cavity (18) including a splayed section (18a) and a broad open end (20) whereat the diameter of the cavity is substantially the same as the greatest diameter (d) of said section. The shrinking die (16) is positioned so that at least the broad end (20) of the cavity is located around the portion (14) to be shrunk while its narrow end is in front of the tube, and, while axially supporting one of the ring (14) and the shrinking die (16), both are mutually axially moved in a direction (F) extending from the free end (10a) of the tube (10) towards the other end thereof.

IPC 1-7
  B21D 39/04

IPC 8 full level
  B21D 39/04 (2006.01); **B21K 1/16** (2006.01); **F16L 33/20** (2006.01)

CPC (source: EP KR)
  B21D 39/04 (2013.01 - KR); **B21D 39/046** (2013.01 - EP)

Cited by
  WO2011036365A2

Designated contracting state (EPC)
  AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
  FR 2726208 A1 19960503; **FR 2726208 B1 19970117**; AT E214983 T1 20020415; BR 9506434 A 19970902; CA 2178740 A1 19960517; CA 2178740 C 20050913; CN 1067303 C 20010620; CN 1138302 A 19961218; CZ 189196 A3 19960911; CZ 292243 B6 20030813; DE 69526065 D1 20020502; DE 69526065 T2 20021107; EP 0737114 A1 19961016; EP 0737114 B1 20020327; ES 2173984 T3 20021101; HU 214856 B 19980629; HU 9601811 D0 19960930; HU T75563 A 19970528; JP 3179499 B2 20010625; JP H09507795 A 19970812; KR 100264241 B1 20000816; KR 960706379 A 19961209; MX 9602541 A 19970531; PL 178959 B1 20000731; RU 2113929 C1 19980627; TW 305783 B 19970521; WO 9614177 A1 19960517

DOCDB simple family (application)
  FR 9413063 A 19941102; AT 95939312 T 19951102; BR 9506434 A 19951102; CA 2178740 A 19951102; CN 95191134 A 19951102; CZ 189196 A 19951102; DE 69526065 T 19951102; EP 95939312 A 19951102; ES 95939312 T 19951102; FR 9501438 W 19951102; HU 9601811 A 19951102; JP 51509296 A 19951102; KR 19960703159 A 19960614; MX 9602541 A 19951102; PL 31525595 A 19951102; RU 96116854 A 19951102; TW 85105207 A 19960501