

Title (en)

MANUFACTURE OF TUBULAR COMPONENTS

Publication

**EP 0188086 A3 19870408 (EN)**

Application

**EP 85308921 A 19851209**

Priority

GB 8500785 A 19850112

Abstract (en)

[origin: EP0188086A2] A method and apparatus for push-pointing a tube so as to produce a smaller diameter end portion includes means for sizing and finishing the reduced diameter portion utilizing a headed mandrel located in the tube and withdrawn through the reduced diameter portion whilst the latter is engaged in the push-pointing die. Figure 5 shows the push-pointing step completed, and the mandrel engaged with the die ready to begin the internal sizing operation.

IPC 1-7

**B21C 1/26**

IPC 8 full level

**B21C 5/00** (2006.01); **B21D 41/04** (2006.01); **B21K 21/12** (2006.01)

CPC (source: EP)

**B21C 5/00** (2013.01); **B21C 5/003** (2013.01); **B21D 41/04** (2013.01); **B21K 21/12** (2013.01)

Citation (search report)

- [X] GB 2068857 A 19810819 - MANNESMANN AG
- [A] EP 0106751 A1 19840425 - PENCE YVES [FR], et al
- [A] FR 2473916 A1 19810724 - TUBES CIE INDLE CALE [FR]

Cited by

US7062948B2; DE102016124995A1; EP2161083A3; ITMI20092155A1; CN114413531A; CN102500711A; CN105500012A; US5546647A; ES2093545A1; US7895875B2; WO2004026502A1; WO9422634A1; WO2008028059A1; DE102016124995B4; US11235372B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0188086 A2 19860723; EP 0188086 A3 19870408;** GB 8500785 D0 19850213; IN 165807 B 19900113

DOCDB simple family (application)

**EP 85308921 A 19851209;** GB 8500785 A 19850112; IN 1058DE1985 A 19851213