

Title (en)
MULTIPLE TUBING ARRANGEMENT AND ITS MANUFACTURING METHOD

Publication
EP 0261446 B1 19910626 (DE)

Application
EP 87112616 A 19870829

Priority
DE 3632241 A 19860923

Abstract (en)
[origin: US4865081A] Multi-lumen tube arrangement for use in a sliding-seal-free centrifuge comprising a plurality of equilength individual tubes (12, 14, 36, 38, 40, 42) which after a twisting about the longitudinal axis of the tube arrangement (10) are each held fixed free of tension at their ends (16-18).

IPC 1-7
B04B 5/04

IPC 8 full level
B04B 11/00 (2006.01); **B04B 5/00** (2006.01); **B04B 5/04** (2006.01); **B29C 53/14** (2006.01); **F16L 11/04** (2006.01); **F16L 11/12** (2006.01)

CPC (source: EP US)
B04B 5/0442 (2013.01 - EP US); **B04B 2005/0492** (2013.01 - EP US); **Y10T 29/49881** (2015.01 - EP US)

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
EP 0261446 A2 19880330; EP 0261446 A3 19890524; EP 0261446 B1 19910626; EP 0261446 B2 19950712; AT E64697 T1 19910715; DE 3632241 A1 19880609; DE 3632241 C2 19891026; DE 3771022 D1 19910801; ES 2022238 B3 19911201; ES 2022238 T5 19951001; JP H07108378 B2 19951122; JP S63205168 A 19880824; US 4865081 A 19890912

DOCDB simple family (application)
EP 87112616 A 19870829; AT 87112616 T 19870829; DE 3632241 A 19860923; DE 3771022 T 19870829; ES 87112616 T 19870829; JP 23642087 A 19870922; US 9849487 A 19870918