

Title (en)
PIPE COUPLING SYSTEM FOR HIGH TEMPERATURE/PRESSURE

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EP 0530303 A4 19930331 (EN)

Application
EP 91910570 A 19910510

Priority
• US 52416090 A 19900516
• US 64374791 A 19910122

Abstract (en)
[origin: WO9118232A1] An internal expansion coupling member (12) for use in joining a pair of aligned tubular members (10) in end-to-end relationship. The coupling member (12) comprises an internal expansion coupling device consisting of a relatively rigid sheet-like member, where the sheet ends (14, 14') overlap such that the end portions lie essentially contiguous with each other. Preferably a compressive seal member (20) is provided between the end portions. Cooperative means (30) are provided between the inside wall of the tubular member and the outer surface of the sheet-like member to fixedly position and retain an O-ring type member (13) therebetween to effect a sealing relationship. Finally, means (60) for expanding the sheet-like member is provided to effect a pressure seal. In a preferred embodiment, a thrust restraint member (96), to prevent separation of the coupling member from a tubular member under conditions of high internal pressure, may be incorporated into the system of this invention.

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IPC 8 full level
F16L 21/02 (2006.01)

CPC (source: EP)
F16L 21/022 (2013.01)

Citation (search report)
• [XP] US 4927189 A 19900522 - BURKIT JOHN W [US]
• [X] FR 2602569 A1 19880212 - GERU CLAUDE [FR]
• [A] DE 2758341 A1 19790628 - LAUTERBACHER BLECHHWAREN FABRI
• [A] DE 2100081 A1 19720713 - BAHCO VENTILATION AB
• [A] FR 2171388 A1 19730921 - SVENSKA FLAECTFABRIKEN AB [SE]
• See references of WO 9118232A1

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DE FR GB IT NL SE

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WO 9118232 A1 19911128; AU 7909791 A 19911210; CA 2081566 A1 19911117; EP 0530303 A1 19930310; EP 0530303 A4 19930331

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