

Title (en)
JOINING OF REINFORCED THERMOPLASTIC PIPE (RTP) FOR HIGH PRESSURE TRANSPORTATION APPLICATIONS

Title (de)
VERFAHREN ZUM VERBINDEN VON VERSTÄRKTEN THERMOPLASTISCHEN ROHREN FÜR HOCHDRUCKTRANSPORTANWENDUNGEN

Title (fr)
ASSEMBLAGE DE TUBES RENFORCES EN THERMOPLASTIQUE POUR APPLICATIONS DE TRANSPORT HAUTE PRESSION

Publication
EP 1166006 A1 20020102 (EN)

Application
EP 00907763 A 20000302

Priority
• GB 0000742 W 20000302
• GB 9906057 A 19990317

Abstract (en)
[origin: GB2347892A] An electrofusion coupler 14 suitable for joining the ends of one reinforced thermoplastic pipe 10 to an adjacent and axially aligned end of another reinforced thermoplastic pipe 12, comprises an annular body to surround the adjacent ends of the pipes to be joined and heating element 18, 20 to weld the inside surface of the annular body of the coupler to the plastics material of the outside surface of the pipes, wherein the coupler is provided with axial reinforcement 24. The reinforcement 24 may be in the form of a sleeve 22 having flanges 24 arranged to engage the axial ends of the coupler 14. The sleeve 22 may be made of steel, or of any suitable material such as composite, plastics or ceramic. The reinforcement may also be in the form of a mesh or a cage made from metal, plastics or ceramic, and may be secured inside the coupler (see 62 in Figure 8), or at points along the external length of the coupler. Alternatively the reinforcement may be a bracket in the form of a ring (64, Figure 9) placed at each axial end of the coupler and provided with two or more circumferentially spaced rods (66, Figure 9). A joint and method of making the joint using the coupler are also disclosed.

IPC 1-7
F16L 47/02

IPC 8 full level
F16L 47/02 (2006.01); **B29C 65/00** (2006.01); **B29C 65/20** (2006.01); **B29C 65/34** (2006.01); **F16L 47/03** (2006.01); **B29K 101/12** (2006.01); **B29L 23/00** (2006.01)

CPC (source: EP)
B29C 65/20 (2013.01); **B29C 65/3432** (2013.01); **B29C 65/72** (2013.01); **B29C 66/1122** (2013.01); **B29C 66/1142** (2013.01); **B29C 66/322** (2013.01); **B29C 66/5221** (2013.01); **B29C 66/5229** (2013.01); **B29C 66/52295** (2013.01); **B29C 66/52298** (2013.01); **B29C 66/721** (2013.01); **B29C 66/723** (2013.01); **B29C 66/73921** (2013.01); **F16L 47/03** (2013.01); **B29C 65/305** (2013.01); **B29C 65/3476** (2013.01); **B29C 66/71** (2013.01); **B29C 66/7212** (2013.01); **B29C 66/72321** (2013.01); **B29C 66/72325** (2013.01); **B29L 2009/00** (2013.01)

Citation (search report)
See references of WO 0055538A1

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

DOCDB simple family (publication)
GB 0004944 D0 20000419; **GB 2347892 A 20000920**; **GB 2347892 B 20030409**; AR 018226 A1 20011031; AU 2924000 A 20001004; AU 755988 B2 20030102; BR 0009059 A 20020409; CA 2365867 A1 20000921; EP 1166006 A1 20020102; GB 9906057 D0 19990512; JP 2002539398 A 20021119; WO 0055538 A1 20000921

DOCDB simple family (application)
GB 0004944 A 20000302; AR P000101118 A 20000314; AU 2924000 A 20000302; BR 0009059 A 20000302; CA 2365867 A 20000302; EP 00907763 A 20000302; GB 0000742 W 20000302; GB 9906057 A 19990317; JP 2000605130 A 20000302