

Title (en)

MULTIPLE PIPE COMPRISING AN ENVELOPE

Title (de)

MEHRFACHROHR MIT EINER ÄUSSEREN HÜLSE

Title (fr)

TUBES MULTIPLES MUNIS D'UNE GAINE

Publication

EP 1049895 A1 20001108 (EN)

Application

EP 98962696 A 19981221

Priority

- NL 9800724 W 19981221
- NL 1008095 A 19980122

Abstract (en)

[origin: WO9937945A1] The invention relates to a multiple pipe comprising at least two inner pipes (2, 3) lying against each other with a wall piece, characterized in that the inner pipes are enclosed over at least a part of their length by an outer pipe (9). A much greater mechanical strength is obtained by arranging the outer pipe, whereby the bendability also increases. In addition, the thermal and mechanical insulation provided by the thus resulting pipe is much greater than of the two pipes according to the prior art. According to a preferred embodiment the outer pipe is separated from the inner pipes by a gap over at least a part of the length of the inner pipes. According to another preferred embodiment, over their part which is not covered by the outer pipe the inner pipes are branched so as to form a manifold.

IPC 1-7

F16L 9/18; F01N 7/08; F01N 7/10

IPC 8 full level

F01N 7/08 (2006.01); **F01N 7/10** (2006.01); **F01N 7/14** (2006.01); **F01N 13/08** (2010.01); **F01N 13/10** (2010.01); **F01N 13/14** (2010.01);
F16L 9/18 (2006.01)

CPC (source: EP KR)

F01N 13/08 (2013.01 - EP); **F01N 13/102** (2013.01 - EP KR); **F01N 13/14** (2013.01 - EP KR); **F16L 9/18** (2013.01 - EP KR)

Citation (search report)

See references of WO 9937945A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

WO 9937945 A1 19990729; EP 1049895 A1 20001108; JP 2002501156 A 20020115; KR 20010040388 A 20010515; NL 1008095 C2 19990728

DOCDB simple family (application)

NL 9800724 W 19981221; EP 98962696 A 19981221; JP 2000528818 A 19981221; KR 20007008032 A 20000721; NL 1008095 A 19980122