

Title (en)

STEEL PIPE WITH INTEGRALLY FORMED LINER AND METHOD OF FABRICATING THE SAME

Title (de)

STAHLROHR MIT INTEGRIERTER AUSKLEIDUNG UND VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)

CONDUITE EN ACIER POURVUE D'UNE GAINÉ FORMÉE SOLIDAIREMENT ET SON MODE DE FABRICATION

Publication

**EP 0836692 A4 19981021 (EN)**

Application

**EP 96924615 A 19960718**

Priority

- US 9611933 W 19960718
- US 50477495 A 19950720

Abstract (en)

[origin: WO9704265A1] A metal pipe (11) and method of forming the same with an integrally formed liner for use in corrosive and abrasive environments utilizes a liner formed of a comparatively thick polymer (16) which is thermally bonded to the metal pipe (11). An intermediate polymer/adhesive layer (80) is applied to the metal pipe (11) to facilitate thermal/chemical bonding. The intermediate layer (80) is preferably applied to the sheet metal (11) in a pre-treatment process prior to roll forming the ribs (12) into the sheet metal (11). The polyethylene liner (16) is applied after the pipe has been formed, to provide a smooth, hydraulically efficient surface which is resistant to the corrosive action of sulfuric acid and the like encountered in sanitary applications, as well as abrasion caused by the flow of water-born debris such as dirt and gravel as is encountered in culvert applications.

IPC 1-7

**F16L 11/16**

IPC 8 full level

**F16L 9/16** (2006.01); **F16L 11/16** (2006.01)

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**B21C 37/123** (2013.01 - EP); **B29C 53/58** (2013.01 - EP); **F16L 9/165** (2013.01 - EP); **F16L 11/16** (2013.01 - EP KR); **B29L 2009/003** (2013.01 - EP)

Citation (search report)

- [X] US 5316606 A 19940531 - ANDRE JAMES R [US]
- [X] US 3348995 A 19671024 - BAKER JAMES R, et al
- [X] GB 1310915 A 19730321 - DUNLOP HOLDINGS LTD
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- [X] US 4999221 A 19910312 - EIGENBROD VOLKMAR [DE], et al
- See references of WO 9704265A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 9704265 A1 19970206**; AU 6501896 A 19970218; AU 712762 B2 19991118; BR 9609777 A 19991221; CA 2225854 A1 19970206; EP 0836692 A1 19980422; EP 0836692 A4 19981021; KR 19990035756 A 19990525; MX 9800485 A 19980430

DOCDB simple family (application)

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