

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.

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F16L 11/16

IPC 8 full level

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Citation (search report)

- [X] US 5316606 A 19940531 - ANDRE JAMES R [US]
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- [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)

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DOCDB simple family (application)

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