

Title (en)

Method of fabrication of composite metallic tubes, composite tube and its use

Title (de)

Verfahren zur Herstellung von Verbund-Rohren aus Metall sowie Verbundrohr und dessen Verwendung

Title (fr)

Procédé de fabrication de tuyaux composites métalliques, tuyau composite et son utilisation

Publication

**EP 0962267 A3 20020102 (DE)**

Application

**EP 99109045 A 19990507**

Priority

DE 19823832 A 19980528

Abstract (en)

[origin: EP0962267A2] A metal strip with a coating of noble metal on at least one side is displaced in a drawing unit (1) with a stationary mandrel (4) in such a way that the coated strip side is formed into the inner surface of a resulting tubular element (12). The latter is inserted into an outer pipe (20), and the resulting assembly is drawn to produce a compound pipe (22) with required final dimensions. An Independent claim is also included for a compound pipe formed by the method which has an inner coating of noble metal. Such a pipe is applied to transmit by reflection, at least a part the radiation falling onto its inner surface.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] US 1839964 A 19320105 - HARVEY HARRY E
- [A] US 1441459 A 19230109 - SMALL GEORGE A
- [DAY] DE 597120 C 19340517 - KARL BREITENBACH, et al
- [DAY] DE 3630625 A1 19880317 - BENTELER WERKE AG [DE]
- [XA] WO 9623442 A1 19960808 - MOSER ELEONORE [DE], et al
- [XA] EP 0777114 A2 19970604 - CITIZEN WATCH CO LTD [JP]
- [A] US 2219434 A 19401029 - WHITE HENDERSON N
- [A] US 4125924 A 19781121 - GOETZE EDWARD S, et al
- [DA] EP 0445904 A2 19910911 - MANNESMANN AG [DE]
- [A] EP 0531616 A1 19930317 - HERAEUS GMBH W C [DE]

Cited by

CN101985132A; CN107262613A; EP3530314A1; US10933233B2

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