

Title (en)

APPARATUS FOR MANUFACTURING PRE-COLORED METAL CONDUITS AND RELATED CONDUIT

Title (de)

VORRICHTUNG ZUR HERSTELLUNG VON VORGEFÄRBTEN METALLROHREN UND ZUGEHÖRIGE LEITUNG

Title (fr)

APPAREIL DE FABRICATION DE CONDUITS MÉTALLIQUES PRE-COLORÉS ET CONDUIT CORRESPONDANT

Publication

EP 3888811 A1 20211006 (EN)

Application

EP 21020146 A 20210314

Priority

IT 202000005728 A 20200318

Abstract (en)

Apparatus (1) for the manufacturing a conduit (10) from a metallic strip (2) comprising an at least partially decorated surface finishing layer (12) comprising shaping rollers (3), driving rollers (5) and seaming rollers (7) wherein the seaming rollers (7) comprising a first seaming roller (7') which comes into contact with the surface finishing layer (12) comprising three portions:- a first cylindrical portion (9a) having a first diameter (d1);- a second cylindrical portion (9b) having a second diameter (d2);- a third cylindrical portion (9c) having a third diameter (d3);wherein said first diameter (d1) is greater than said second diameter (d2), said third diameter (d3) is greater than said second diameter (d2), said first diameter (d1) is greater than said third diameter (d3), said second cylindrical portion (9b) is arranged between said first and third cylindrical portions (9a, 9c) and said third cylindrical portion (9c) is arranged towards the side of the apparatus (1) from which the seamed conduit (10) comes out; andwherein said second cylindrical portion (9b) is joined to said first and third cylindrical portions (9a, 9c) by means of tapered sides (11', 11");wherein a first driving roller (5') that comes into contact with the surface finishing layer (12) comprises a surface coating made of a polymeric material, preferably elastomeric, even more preferably polyurethane.

IPC 8 full level

B21C 37/12 (2006.01)

CPC (source: EP)

B21C 37/121 (2013.01); **B21C 37/123** (2013.01); **B21C 37/126** (2013.01)

Citation (applicant)

- GB 2213748 A 19890823 - SPIRO MACHINES SA [CH]
- EP 0885071 A1 19981223 - LINDAB AB [SE]

Citation (search report)

- [A] FR 1279153 A 19611215
- [A] US 4481978 A 19841113 - ESCANDELL MANUEL [DE]
- [A] US 3220234 A 19651130 - LAFFIE HARPER
- [A] GB 951570 A 19640304 - DRIAM S A
- [XII] IT 201800005813 A1 20191129

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3888811 A1 20211006; IT 202000005728 A1 20210918

DOCDB simple family (application)

EP 21020146 A 20210314; IT 202000005728 A 20200318