

Title (en)
DEVICE FOR DRYING A METAL STRIP

Title (de)
VORRICHTUNG ZUM TROCKNEN EINES METALLSTREIFENS

Title (fr)
DISPOSITIF D'ESSORAGE D'UNE BANDE METALLIQUE

Publication
EP 3519117 A1 20190807 (FR)

Application
EP 17780507 A 20170926

Priority
• FR 1659083 A 20160927
• FR 2017052577 W 20170926

Abstract (en)
[origin: WO2018060581A1] Treatment device (1) intended for drying a laminated strip (B) comprising: - two crosspieces (2, 3), lower and upper, extending transversely to the metal strip, on either side of the strip, the upper crosspiece (2) embedding an upper pressure cylinder (4) and supporting rollers (5) of said upper pressure cylinder, the lower crosspiece (3) embedding a lower pressure cylinder (6) and the supporting rollers (7) of said lower pressure cylinder, - the actuation means (Vh) and the guiding means enabling the crosspieces (2, 3) to pass from a retracted position, known as idle position, to a close position (P2), known as working position, for which the two pressure cylinders (4, 6), lower and upper, arranged on either side of the strip, transversely to the direction of travel, are each intended to be pressure-applied on the strip by means of said supporting rollers (5, 7) distributed along the length of the pressure cylinder, and along at least two rotating axes (A4; A7) parallel to the longitudinal axis of said pressure cylinder. According to the invention, for each crosspiece (2; 3), lower or upper, - a first compartment (50; 70) supports all said supporting rollers (5; 7) connected to the lower or upper pressure cylinder, the first compartment (50; 70) being a removable element of the crosspiece (2; 3), by sliding said compartment along the longitudinal axis of the crosspiece, - a second compartment (40; 60) supports the pressure cylinder (4; 6), lower or upper, the second compartment being a removable element of the crosspiece, by sliding said compartment along the longitudinal axis of the crosspiece, and such as to enable the extraction of said pressure cylinder (4; 6) by sliding said second compartment (4; 6), while the first compartment (50; 70) and the corresponding supporting rollers (5; 7) are kept in said crosspieces (2; 3).

IPC 8 full level
B21B 45/02 (2006.01)

CPC (source: EP US)
B08B 1/165 (2024.01 - US); **B08B 1/32** (2024.01 - US); **B21B 1/22** (2013.01 - US); **B21B 15/0035** (2013.01 - US); **B21B 45/0275** (2013.01 - US); **B21B 45/0278** (2013.01 - EP US); **B21B 39/006** (2013.01 - EP US); **B21B 45/0284** (2013.01 - EP US); **B21B 2203/06** (2013.01 - EP US)

Citation (search report)
See references of WO 2018060581A1

Cited by
WO2023165640A1

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)
FR 3056419 A1 20180330; **FR 3056419 B1 20181012**; CN 109789455 A 20190521; CN 109789455 B 20210713; EP 3519117 A1 20190807; EP 3519117 B1 20201028; ES 2834882 T3 20210621; US 11358191 B2 20220614; US 2019217355 A1 20190718; WO 2018060581 A1 20180405

DOCDB simple family (application)
FR 1659083 A 20160927; CN 201780059165 A 20170926; EP 17780507 A 20170926; ES 17780507 T 20170926; FR 2017052577 W 20170926; US 201716334423 A 20170926