

Title (en)
REEL DEVICE FOR LARGE THICKNESS RANGE OF METAL STRIPS

Title (de)
HASPELEINRICHTUNG FÜR GROSSEN DICKENBEREICH VON METALLBÄNDERN

Title (fr)
DISPOSITIF D'ENROULEMENT POUR UNE PLAGE DE GRANDES ÉPAISSEURS DE BANDES MÉTALLIQUES

Publication
EP 4019158 B1 20231101 (DE)

Application
EP 20216982 A 20201223

Priority
EP 20216982 A 20201223

Abstract (en)
[origin: US2022193743A1] A coiling device includes a coiler (1) having a coiling mandrel (3) for coiling a metal strip (2) which is fed (x) to the coiler (1), and a coiling swing arm (4) having a front and a rear pressure roller (5, 6) and a deflection plate (7). A swing arm drive (8) lines up the coiling swing arm (4) with the coiling mandrel (3) and is driven away from the coiling mandrel (3). An upper duct flap (9) upstream of the coiler (1) in the feed direction (x) for guiding the metal strip (2). A flap drive (10) for positioning the upper duct flap (9) such that, when the coiling swing arm (4) is lined up with the coiling mandrel (3), the upper duct flap is arranged between the coiling mandrel (3) and the front pressure roller (5) of the coiling swing arm (4) or is arranged upstream of the front pressure roller (5) of the coiling swing arm (4). In the first-mentioned case, the metal strip (2) is deflected around the coiling mandrel (3) only by the rear pressure roller (6) and the deflection plate (7) of the coiling swing arm (4) and, in the last-mentioned case, additionally also by the front pressure roller (5).

IPC 8 full level
B21C 47/04 (2006.01); **B21C 47/06** (2006.01); **B21C 47/34** (2006.01); **B65H 18/26** (2006.01)

CPC (source: EP US)
B21C 47/02 (2013.01 - US); **B21C 47/04** (2013.01 - EP US); **B21C 47/06** (2013.01 - EP US); **B21C 47/063** (2013.01 - US); **B21C 47/34** (2013.01 - US); **B21C 47/3433** (2013.01 - EP US); **B21C 47/3441** (2013.01 - EP US); **B65H 18/08** (2013.01 - US); **B65H 19/28** (2013.01 - EP US); **B65H 20/02** (2013.01 - US); **B65H 18/10** (2013.01 - US); **B65H 18/26** (2013.01 - US); **B65H 2301/41427** (2013.01 - EP US); **B65H 2701/173** (2013.01 - US)

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

DOCDB simple family (publication)
EP 4019158 A1 20220629; **EP 4019158 B1 20231101**; **EP 4019158 C0 20231101**; ES 2966258 T3 20240419; US 11904371 B2 20240220; US 2022193743 A1 20220623

DOCDB simple family (application)
EP 20216982 A 20201223; ES 20216982 T 20201223; US 202117558786 A 20211222