

Title (en)

A DEVICE FOR COILING A METAL STRIP INTO A COIL

Title (de)

VORRICHTUNG ZUM AUFWICKELN EINES METALLBANDES ZU EINER SPULE

Title (fr)

DISPOSITIF POUR ENROULER UNE BANDE MÉTALLIQUE EN BOBINE

Publication

EP 3909695 A1 20211117 (EN)

Application

EP 21168781 A 20210416

Priority

PL 43389920 A 20200512

Abstract (en)

A device for coiling a metal strip into a coil, comprising: a cylindrical chamber (20) for coiling the metal strip (1); entry rollers (30) located in front of the chamber (20) for feeding the metal strip (1) into the chamber (20); wherein a side wall of the chamber (20) is formed by a plurality of rotating rollers (21) arranged around a circumference of the chamber (20). Two gripping mechanisms (40) are located inside the chamber (20) at the sides of the chamber (20), wherein the gripping mechanisms (40) comprise rotatable grippers (41). A number of the rotating rollers (21) is mounted on a swivel arm (22). The device is configured to operate at: a loading configuration, wherein the grippers (41) are configured to grip the front edge of the metal strip (1); a coiling configuration, wherein the swivel arm (22) is closed and the grippers (41) are configured to rotate around an axis of the chamber (20) along with the gripped metal strip (1) to coil the metal strip; an unloading configuration, wherein the swivel arm (22) is open and the grippers (41) are moved aside out of the chamber (20), so that the coil can be removed from the chamber (20).

IPC 8 full level

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Citation (applicant)

US 2212243 A 19400820 - PAUL GEORGE F

Citation (search report)

- [A] US 1882219 A 19321011 - HARWOOD PAISLEY B, et al
- [A] US 4005830 A 19770201 - SMITH WILLIAM
- [A] US 5361618 A 19941108 - STEFANELLI JOSEPH M [US]
- [A] EP 2416902 A2 20120215 - HPL NEUGNADENFELDER MASCHINENFABRIK GMBH [DE]
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