

Title (en)
ROTARY BRAIDING MACHINE

Title (de)
ROTATIONSFLECHTMASCHINE

Title (fr)
MÉTIER À TRESSER ROTATIF

Publication
EP 2938767 B1 20170215 (DE)

Application
EP 13807935 A 20131210

Priority
• DE 102012025302 A 20121228
• EP 2013003731 W 20131210

Abstract (en)
[origin: WO2014101982A1] The invention relates to a rotary braiding machine (1) having a braiding axis (14) for braiding strand-shaped materials, in particular wire, carbon fibers or textile fibers, into meshes. The rotary braiding machine (1) has a plurality of first and second coil carriers (4, 5), which preferably rotate in opposition around the braiding axis (14). The rotary braiding machine (1) is designed to braid first and second strands (10, 11) provided from the first and second coils (43, 51) on the first and second coil carriers (4, 5) with each other. The first coil carriers (4) are arranged such that the second strands (11) can be completely moved around the first coil carriers (4). Furthermore, the first coil carriers (4) are guided along a closed guide track which circulates around the braiding axis (14). According to the invention, the surface of the at least one closed guide track is designed as a sprocket (6, 7) and at least one gear wheel (41, 42) is attached to each of the first coil carriers (4) which intermeshes with the sprocket (6, 7) and is continually engaged with the sprocket (6, 7), in particular also during a movement of the second strand (11) around the first coil carrier (4). Thereby the second strand (11) preferably plunges into a recess (71) in a tooth gap of the sprocket (6, 7) while the first coil carrier (4) moves by.

IPC 8 full level
D04C 3/42 (2006.01)

CPC (source: CN EP US)
D04C 3/42 (2013.01 - CN EP US); **D04C 3/44** (2013.01 - EP US); **D04C 3/46** (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)
DE 102012025302 A1 20140703; BR 112015007681 A2 20170704; CN 104903504 A 20150909; EP 2938767 A1 20151104;
EP 2938767 B1 20170215; HU E031708 T2 20170728; JP 2016506457 A 20160303; MX 2015008203 A 20150916; MX 344632 B 20170104;
RU 2015116269 A 20170202; US 2015299916 A1 20151022; WO 2014101982 A1 20140703

DOCDB simple family (application)
DE 102012025302 A 20121228; BR 112015007681 A 20131210; CN 201380063076 A 20131210; EP 13807935 A 20131210;
EP 2013003731 W 20131210; HU E13807935 A 20131210; JP 2015550004 A 20131210; MX 2015008203 A 20131210;
RU 2015116269 A 20131210; US 201514752582 A 20150626