

Title (en)

LAYING ARM FOR AN APPARATUS FOR WINDING UP AN ENDLESS MATERIAL THAT IS TO BE WOUND UP

Title (de)

VERLEGEARM FÜR EINE VORRICHTUNG ZUM WICKELN EINES STRANGFÖRMIGEN WICKELGUTS

Title (fr)

BRAS DE DÉPLACEMENT POUR UN DISPOSITIF D'ENROULEMENT D'UN PRODUIT À ENROULER EN FORME DE BOUDIN

Publication

**EP 3099614 A1 20161207 (DE)**

Application

**EP 15701478 A 20150128**

Priority

- DE 102014001057 A 20140128
- DE 102014001135 A 20140128
- EP 2015000164 W 20150128

Abstract (en)

[origin: WO2015113763A1] Disclosed is a laying arm (27) for an apparatus (1) for helically winding an endless material (3) that is to be wound up, e.g. a continuously extruded tube, preferably made of plastic, onto a rotationally driven winding drum (5). The laying arm (27) transfers the material (3) to be wound up to the winding drum (5) when the laying arm (27) performs an especially substantially linear back-and-forth laying motion. According to the invention, in a contact zone (38) which lies at the end (33) of the laying arm closer to the winding drum and which faces a sidewall flange (11a, 11b) of the winding drum (5), the laying arm (27) comes in direct contact, in particular in direct sliding contact, with said sidewall flange (11a, 11b), especially when the laying arm performs a turning operation. Furthermore, a distance sensor (36), such as a contactor (37), which is located at the end of the laying arm closer to the winding drum, emits a control signal, such as a turning operation-triggering signal, at least when the end (33) of the laying arm closer to the winding drum reaches at least one predefined position. Also, in the area of each contact zone (38), the laying arm comprises an actuating projection (101a, 101b) which, in an inactive position, projects from the respective contact zone in the direction of the back-and-forth laying motion and is mounted on the laying arm (27) so as to be movable, in particular pivotable in such a way that in an open position, the actuating projection (101a, 101b) opens said contact zone (38) to allow for the direct contact.

IPC 8 full level

**B65H 54/28** (2006.01)

CPC (source: EP)

**B65H 54/2851** (2013.01); **B65H 54/286** (2013.01); **B65H 2701/331** (2013.01)

Citation (search report)

See references of WO 2015113763A1

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)

**WO 2015113763 A1 20150806**; DK 3099614 T3 20190318; EP 3099614 A1 20161207; EP 3099614 B1 20181212; ES 2724461 T3 20190911; HU E041608 T2 20190528; PL 3099614 T3 20190531; PT 3099614 T 20190325

DOCDB simple family (application)

**EP 2015000164 W 20150128**; DK 15701478 T 20150128; EP 15701478 A 20150128; ES 15701478 T 20150128; HU E15701478 A 20150128; PL 15701478 T 20150128; PT 15701478 T 20150128