

Title (en)

Method of winding in layers filamentary material and apparatus

Title (de)

Verfahren zum lagenweisen Aufwickeln von strangförmigem Wickelgut sowie Vorrichtung

Title (fr)

Procédé pour le bobinage en couches de matériaux filamenteux et dispositif

Publication

EP 0825624 A3 19980513 (DE)

Application

EP 97114456 A 19970821

Priority

DE 19634231 A 19960823

Abstract (en)

[origin: EP0825624A2] The method involves winding the strand-type material (1) onto a rotatable spool (4) with lateral movement between the material feed (2) and spool. Parts of the material are wound onto parts of a previously wound intermediate material (15). The speed of axial displacement of the intermediate material is greater than that of the primary material. The lateral displacement of the winding material per layer takes place in one direction and that of the intermediate material takes place partly in the same direction and partly in the opposite direction. The sum of the displacements in the two directions is an integer greater than or equal to 3.

IPC 1-7

H01F 41/06

IPC 8 full level

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CPC (source: EP)

B65H 54/28 (2013.01); **B65H 54/2803** (2013.01); **B65H 55/04** (2013.01); **H01F 41/061** (2016.01); **H01F 41/064** (2016.01); **H01F 41/122** (2013.01); **B65H 2701/37** (2013.01); **B65H 2701/3914** (2013.01); **B65H 2701/3916** (2013.01)

Citation (search report)

- [DA] DE 3428893 A1 19860213 - MESSWANDLER BAU AG [DE]
- [A] US 2328443 A 19430831 - FOSTER LEVIN W

Cited by

CN106219330A; CN106315302A; US7108247B2; US8314675B2; US8790476B2; WO2007033499A1; WO2009097988A1; WO2015062395A1; WO2015074465A1

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