

Title (en)

Device and Method for spreading a carbon fibres tow

Title (de)

Vorrichtung und Verfahren zum Ausbreiten eines Karbonfaserstrangs

Title (fr)

Dipositif et méthode de séparation d'un faisceau de fibres de carbone

Publication

**EP 1783252 A1 20070509 (DE)**

Application

**EP 06015960 A 20060801**

Priority

DE 102005052660 A 20051104

Abstract (en)

Device for spreading a carbon fiber tow (2) to form a carbon fiber tape (3) comprises comprises a heater (14) and a spreader (9), where the heater comprises a series of electrodes (15-17) that are contacted by the tow as it moves towards the spreader and are connected to a voltage source. An independent claim is also included for spreading a carbon fiber tow to form a carbon fiber tape by heating and then widening the tow, where heating is effected by generating a current flow in a predetermined length of the tow.

IPC 8 full level

**D01D 11/02** (2006.01); **D02J 1/18** (2006.01)

CPC (source: EP US)

**D02J 1/18** (2013.01 - EP US)

Citation (search report)

- [XA] AU 423846 B2 19720502
- [A] US 3704485 A 19721205 - HALL JOHN N
- [A] US 5042111 A 19910827 - IYER SHRIDHAR [US], et al
- [A] US 6049956 A 20000418 - LIFKE JOSEPH LEE [US], et al
- [A] US 4714642 A 19871222 - MCALILEY J EUGENE [US], et al

Cited by

CN103603119A; CN103757784A; KR20190102110A; US10378125B2; WO2016142781A1; WO2014180630A1; US10814524B2; US10864657B2; US10953569B2

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