

Title (en)  
Filament drawing device

Title (de)  
Vorrichtung zum Abziehen von Filamenten

Title (fr)  
Dispositif d'étirage de filaments

Publication  
**EP 2135980 A3 20100707 (DE)**

Application  
**EP 09162198 A 20090608**

Priority  
DE 102008029550 A 20080621

Abstract (en)  
[origin: EP2135980A2] The device has a drawing nozzle (6) forming a slot (10). Filaments (5) provided by an upstream spinning device (3) are guided by the drawing nozzle. The drawing nozzle is formed such that a tractive force is applied for drawing the filaments using compressed air. A conducting unit (15) extending over the length of the slot is arranged at a lower side of the drawing nozzle at a side of the slot. The conducting unit is provided with a set of boreholes (16) that connect a region below the slot with environment in a passive manner.

IPC 8 full level  
**B29C 48/345** (2019.01); **D01D 5/098** (2006.01); **D04H 3/16** (2006.01)

CPC (source: EP US)  
**D01D 5/0985** (2013.01 - EP US); **D04H 3/005** (2013.01 - EP US); **D04H 3/16** (2013.01 - EP US)

Citation (search report)

- [A] US 6379136 B1 20020430 - NAJOUR GERALD C [US], et al
- [A] EP 1510603 A1 20050302 - TORAY INDUSTRIES [JP]
- [A] DATABASE WPI Week 200602, Derwent World Patents Index; AN 2006-014401, XP002582428

Cited by  
EP2584076A1

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2135980 A2 20091223; EP 2135980 A3 20100707; EP 2135980 B1 20110817**; AT E520805 T1 20110915; CN 101608380 A 20091223; CN 101608380 B 20120411; DE 102008029550 A1 20091224; US 2009317505 A1 20091224; US 8186986 B2 20120529

DOCDB simple family (application)  
**EP 09162198 A 20090608**; AT 09162198 T 20090608; CN 200910142438 A 20090616; DE 102008029550 A 20080621; US 48782409 A 20090619