

Title (en)

Process and apparatus for conveying and for laying continuous filaments bundle with air force

Title (de)

Verfahren und Vorrichtung zur Förderung und Ablage von Scharen endloser Fäden mittels Luftkräften

Title (fr)

Procédé et installation pour produire et coucher des faisceaux de filaments continus au moyen de force d'air

Publication

EP 0598463 B2 19990922 (DE)

Application

EP 93250289 A 19931025

Priority

DE 4236514 A 19921026

Abstract (en)

[origin: US5439364A] An apparatus for delivering and depositing groups of continuous threads or filaments, which are conveyed by means of a gas flow and which are introduced substantially parallel into a passage having a corresponding cross-section is proposed, the gas flow accompanying the threads upon entering the upper part of the passage is accelerated to high speed and is then decelerated and the threads are deposited on a moving depositing surface. The gas flow delivering the threads flows at high speed through the passage preferably provided with parallel walls and then is decelerated by the suction of part of the gas in the lower passage area laterally through openings in the passage walls.

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D04H 3/16

IPC 8 full level

D04H 3/16 (2006.01)

CPC (source: EP US)

D04H 3/007 (2013.01 - EP US); **D04H 3/011** (2013.01 - EP US); **D04H 3/16** (2013.01 - EP US)

Citation (opposition)

Opponent :

- DE 1635596 A1 19710325 - DU PONT
- DE 1435653 B1 19731206 - RHODIACETA [FR]
- EP 0038989 B1 19841003

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 4236514 A1 19940428; **DE 4236514 C2 19970327**; BR 9304367 A 19941129; CN 1043911 C 19990630; CN 1092034 A 19940914; EP 0598463 A1 19940525; EP 0598463 B1 19960814; EP 0598463 B2 19990922; US 5439364 A 19950808

DOCDB simple family (application)

DE 4236514 A 19921026; BR 9304367 A 19931026; CN 93120230 A 19931026; EP 93250289 A 19931025; US 14223493 A 19931025