

Title (en)
Method and apparatus for drying a coated strand

Title (de)
Verfahren und Vorrichtung zur Trocknung eines beschichteten Fadens

Title (fr)
Procédé et dispositif de séchage d'un fil revêtu

Publication
EP 0477807 B1 19960612 (EN)

Application
EP 91116097 A 19910921

Priority
• US 58862390 A 19900926
• US 58922390 A 19900926

Abstract (en)
[origin: EP0477807A2] A plurality of coated strands (14) are conveyed through a drying oven (26). A plurality of nozzles (48) impinge the upper surface of the coated strand as it passes therethrough. Baffle plates (54) positioned below the strands redirect the gas stream such that, after the gas stream has passed through the strands, it is redirected so as to impinge on an opposite surface of the coated strand. The strand is supported by positioning it between an additional pair of nozzles (82) that are tilted towards each other such that an upwardly directed gas stream issuing from the first nozzle intersects an upwardly directed gas stream issuing from the second nozzle along a line which along with the strand, forms a generally vertical plane. The combined upwardly directed force from the gas streams lifts and supports the strand while the opposing lateral force from each gas stream on the strand tend to reduce and lateral movement and stabilize its relative position. <IMAGE>

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F26B 13/20

IPC 8 full level
B65H 51/16 (2006.01); **C03C 25/10** (2006.01); **F26B 13/00** (2006.01); **F26B 13/20** (2006.01); **F26B 21/00** (2006.01)

CPC (source: EP)
F26B 13/001 (2013.01); **F26B 13/002** (2013.01); **F26B 13/104** (2013.01); **F26B 21/004** (2013.01)

Citation (examination)
• EP 0235723 A2 19870909 - VITS HILMAR
• DE 2754438 A1 19780615 - PICKERING EDGAR LTD
• DE 1097943 B 19610126 - KRANTZ SOEHNE H
• US 2351549 A 19440613 - SCHWARTZ PHILLIPS K
• US 3823488 A 19740716 - HOUBEN H, et al

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EP0652411A1; CN113670049A; CN112717440A; CN115532469A; CN112708950A; WO2015006405A1

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