Title (en)

AIR SPINNING DEVICE, SPINNING UNIT, AND SPINNING METHOD USING THE AIR SPINNING DEVICE

Title (de)

LUFTSPINNVORRICHTUNG, SPINNEINHEIT UND SPINNVERFAHREN UNTER VERWENDUNG DER LUFTSPINNVORRICHTUNG

Title (fr)

FILEUSE À AIR, UNITÉ DE FILATURE ET PROCÉDÉ DE FILATURE AU MOYEN DE LA FILEUSE À AIR

Publication

EP 3098337 B1 20180321 (EN)

Application

EP 16170789 A 20111104

Priority

- JP 2010252278 A 20101110
- EP 11187855 A 20111104

Abstract (en)

[origin: EP2453045A2] An air spinning device (6) includes a nozzle block (63) that includes a through hole (63p) that partially defines a spinning chamber (SC), and an air hole (63a) that is communicable with the spinning chamber (SC); a fiber guide (61) in which a fiber introducing passage (61g) that is communicable with the spinning chamber (SC) is defined; and a spindle (62) in which a fiber passageway (62s) that is communicable with the spinning chamber (SC) is defined. The air spinning device (6) spins a spun yarn (Y) from a fiber bundle (F) by supplying air from the air hole (63a) into the spinning chamber (SC). The air hole (63a) is located such that a point of intersection (IS1) between a central axis of the air hole (63a) and a wall surface of the through hole (63p) is in a range of greater than or equal to 3 mm to less than or equal to 10 mm from a contact surface between the nozzle block (63) and the fiber guide (61).

IPC 8 full level

D01H 4/02 (2006.01); **D01H 1/115** (2006.01)

CPC (source: CN EP)

D01H 1/115 (2013.01 - EP); **D01H 4/02** (2013.01 - CN); **D01H 4/38** (2013.01 - CN)

Cited by

CN109629066A; CN114086283A

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EP 2453045 A2 20120516; **EP 2453045 A3 20151209**; **EP 2453045 B1 20190102**; CN 102534879 A 20120704; CN 102534879 B 20160706; CN 105696124 A 20160622; CN 105696124 B 20200107; CN 202466010 U 20121003; EP 3098337 A1 20161130; EP 3098337 B1 20180321; JP 2012102432 A 20120531

DOCDB simple family (application)

EP 11187855 A 20111104; CN 201110351190 A 20111101; CN 201120437053 U 20111101; CN 201610093420 A 20111101; EP 16170789 A 20111104; JP 2010252278 A 20101110