

Title (en)
AIR-JET TYPE SPINNING DEVICE

Title (de)
LUFTSPINNMASCHINE

Title (fr)
MÉTIER À FILER À JET D'AIR

Publication
EP 3266910 B1 20210324 (EN)

Application
EP 17178196 A 20170627

Priority
IT 201600070676 A 20160707

Abstract (en)
[origin: EP3266910A1] An air-jet type spinning device (4) comprising a body (8) at least partially hollow that delimits a spinning chamber (12), a fiber feeding device (16) facing said spinning chamber (12) to feed the fibers into the spinning chamber (12), a spinning spindle (20) at least partially inserted into the spinning chamber (12) and provided with a spinning channel (24) for the transit of yarn obtained from said fibers, the spinning channel (24) having a main axis defining a spinning direction (X-X) and having a front input (28) for introducing the fibers into said spinning channel (24). Advantageously, the body (8) comprises at least one upper crown of holes (32) comprising at least two upper injection holes (36) which input an upper flow rate of air in the spinning chamber (12). Furthermore, the body (8) comprises at least one lower crown of holes (40) comprising at least two lower injection holes (44) which input a lower air flow into the spinning chamber (12), wherein said crowns of upper and lower holes (32,40) are fluidically connected to distinct air supplies. The upper injection holes (36) extend into the spinner chamber (12) at a first point (48) upstream of the front input (28), with respect to a direction of advancement (F) of the yarn in the spinning channel (24), wherein the lower injection holes (44) extend into the spinning chamber (12) at a second point (56) downstream of the front input (28), with respect to a direction of advancement (F) of the yarn in the spinning channel (24).

IPC 8 full level
D01H 1/115 (2006.01)

CPC (source: EP)
D01H 1/115 (2013.01)

Citation (opposition)
Opponent : Saurer Intelligent Technology AG
• DE 102007006674 A1 20080814 - OERLIKON TEXTILE GMBH & CO KG [DE]
• CH 705221 A1 20130115 - RIETER AG MASCHF [CH]
• WO 2007033717 A1 20070329 - RIETER AG MASCHF [CH], et al
• EP 2772572 A1 20140903 - RIETER AG MASCHF [CH]
• EP 2677070 A1 20131225 - MURATA MACHINERY LTD [JP]

Cited by
EP3643818A1; IT201800009728A1; US11155939B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3266910 A1 20180110; EP 3266910 B1 20210324; CN 107587215 A 20180116; CN 107587215 B 20211221; CN 206902322 U 20180119; IT 201600070676 A1 20180107

DOCDB simple family (application)
EP 17178196 A 20170627; CN 201710542961 A 20170705; CN 201720810413 U 20170705; IT 201600070676 A 20160707