

Title (en)

YARN SUCTION ARRANGEMENT FOR PIECING UNIT OF A TEXTILE MACHINE

Title (de)

FADENSAUGANORDNUNG FÜR EINE ANSPINNEINHEIT EINER TEXTILMASCHINE

Title (fr)

AGENCEMENT D'ASPIRATION DE FIL POUR UNITÉ DE RATTACHEMENT D'UNE MACHINE TEXTILE

Publication

**EP 3736361 A1 20201111 (EN)**

Application

**EP 20172829 A 20200505**

Priority

IN 201941017997 A 20190506

Abstract (en)

An automatic piecing unit (1) for piecing broken yarns in a ring spinning machine is disclosed. A suction assembly for sucking a broken yarn end from a cop (4) is provided. The suction assembly comprises a suction pipe (2) having a suction mouth (3) present at an end facing the cop (4). The suction pipe (2) is positioned at a predetermined height over the cop (4), to suck the broken yarn end from the cop (4). A first venturi jet (5a) is affixed with the suction mouth (3) to receive compressed air from a pressure supply port. Movement of the compressed air through a constricted section of the first venturi jet (5a) creates vacuum in the suction mouth (3) to suck the broken yarn end from the cop (4) into the suction pipe (2).

IPC 8 full level

**D01H 15/013** (2006.01)

CPC (source: CN EP)

**D01H 15/00** (2013.01 - CN); **D01H 15/013** (2013.01 - EP)

Citation (search report)

- [E] EP 3708701 A1 20200916 - PREMIER EVOLVICS PVT LTD [IN]
- [XP] EP 3521491 A1 20190807 - RIETER AG MASCHF [CH]
- [X] JP 2018012902 A 20180125 - MURATA MACHINERY LTD
- [A] EP 0303201 A1 19890215 - ZINSER TEXTILMASCHINEN GMBH [DE]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3736361 A1 20201111**; **EP 3736361 B1 20220309**; CN 111893608 A 20201106; CN 111893608 B 20220826

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**EP 20172829 A 20200505**; CN 202010348394 A 20200428