

Title (en)  
FINE SPINNING MACHINE

Title (de)  
KOMPAKTSPINNMASCHINE

Title (fr)  
MÉTIER DE FILATURE EN FIN

Publication  
**EP 3754063 A1 20201223 (EN)**

Application  
**EP 20179917 A 20200615**

Priority  
JP 2019113472 A 20190619

Abstract (en)  
A fine spinning machine includes a fiber bundle condensing device (3) that condenses a fiber bundle drafted by a drafting device (1) that includes a delivery roller pair (2). The fiber bundle condensing device includes a nip roller pair (7) disposed downstream of the delivery roller pair (2), a suction pipe (5) disposed upstream of the nip roller pair (7) and downstream of the delivery roller pair (2), and an air-permeable apron (6). A circumferential velocity ratio of a first drive roller (2b) to a second drive roller (7b) is modifiable. The fiber bundle condensing device (3) includes a pressing mechanism (11) configured to press a first driven roller (2a) or a second driven roller (7a) such that the first driven roller (2a) or the second driven roller (7a) is pressed against the first drive roller (2b) or the second drive roller (7b), and against the air-permeable apron (6).

IPC 8 full level  
**D01H 5/72** (2006.01); **D01H 5/82** (2006.01); **D01H 5/86** (2006.01)

CPC (source: CN EP)  
**D01H 5/26** (2013.01 - CN); **D01H 5/32** (2013.01 - CN); **D01H 5/46** (2013.01 - CN); **D01H 5/56** (2013.01 - CN); **D01H 5/72** (2013.01 - EP); **D01H 5/82** (2013.01 - EP); **D01H 5/86** (2013.01 - EP)

Citation (applicant)  
• JP 2008095233 A 20080424 - TOYOTA IND CORP  
• JP 2008095233 A 20080424 - TOYOTA IND CORP  
• JP 2000034631 A 20000202 - SPINDELFAB SUESSEN SCHURR STAHL  
• JP 2000034631 A 20000202 - SPINDELFAB SUESSEN SCHURR STAHL  
• JP 2000170043 A 20000620 - ZINSER TEXTILMASCHINEN GMBH  
• JP 2000170043 A 20000620 - ZINSER TEXTILMASCHINEN GMBH

Citation (search report)  
• [AD] EP 1911865 A2 20080416 - TOYOTA JIDOSHOKKI KK [JP]  
• [A] JP 2005082956 A 20050331 - RIETER AG MASCHF  
• [A] DE 19708410 A1 19980917 - CSM GMBH [DE]  
• [A] DE 10218843 A1 20031106 - STAHLLECKER GMBH WILHELM [DE]

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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