

Title (en)  
SPINNING APPARATUS AND PROCESS FOR PRODUCING FINE THREADS BY SPLICING FOR FORMING A NONWOVEN, AND NONWOVEN OBTAINABLE THEREBY

Title (de)  
SPINNVORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG FEINER FÄDEN DURCH SPLEISSEN ZWECKS BILDUNG EINES SPINNVLIESES, SOWIE DAS DADURCH ERHALTENE SPINNVLIES

Title (fr)  
DISPOSITIF DE FILATURE ET PROCEDE POUR PRODUIRE DES FILS FINS PAR EPISSURAGE AFIN D'OBTENIR UN NONTISSE, ET NONTISSE SUSCEPTIBLE D'ETRE OBTENU AINSI

Publication  
**EP 1902164 A1 20080326 (DE)**

Application  
**EP 06818294 A 20061023**

Priority  
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• DE 102006012052 A 20060308

Abstract (en)  
[origin: US2009221206A1] A spinning apparatus for producing fine threads by splicing, which comprises a plurality of protruding spinneret jets disposed in a spinneret jet portion and having spinning orifices from which the spinning dopes exit as monofilaments and having a plurality of acceleration jets, in particular Laval jets, whose cross section reduces, only to widen downstream of the smallest cross section, which are assigned to the spinning orifices is proposed to be provided with means for feeding gas streams which surround the monofilaments and are accelerated by the acceleration jets. The acceleration jet, in an at least partially plate-shaped gas jet portion, is constructed as a funnel-shaped depression into which the spinneret jet reaches to form gas flow channels. Means for relative displacement of the gas jet part and of the spinneret jet part relative to one another are provided such that the flow cross section of the gas flow channels is alterable and/or the position of the smallest cross section of the acceleration jets is adjustable in relation to the spinning orifices.

IPC 8 full level  
**D01D 4/02** (2006.01); **D01F 2/00** (2006.01)

CPC (source: EP US)  
**D01D 4/025** (2013.01 - EP US); **D01D 5/14** (2013.01 - EP US); **Y10T 442/681** (2015.04 - EP US)

Citation (search report)  
See references of WO 2007101459A1

Cited by  
DE102010019910A1; WO2011138056A1

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**US 2009221206 A1 20090903**; AT E478983 T1 20100915; BR PI0621444 A2 20121009; CA 2644977 A1 20070913; CA 2644977 C 20130514; CN 101460666 A 20090617; CN 101460666 B 20110518; CN 102162141 A 20110824; CN 102162141 B 20130918; DE 102006012052 A1 20070913; DE 502006007739 D1 20101007; EP 1902164 A1 20080326; EP 1902164 B1 20100825; JP 2009529102 A 20090813; RU 2008135761 A 20100420; RU 2396378 C2 20100810; WO 2007101459 A1 20070913

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