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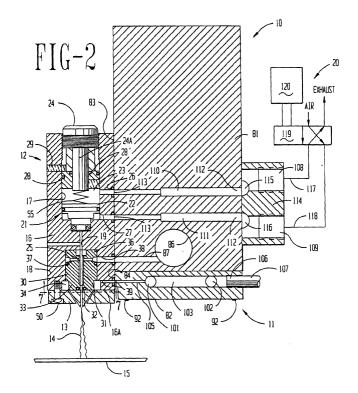
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(54) Modular meltblowing die

(57) A meltblowing die includes a die tip having an outwardly projecting triangular nosepiece defining an apex therealong, a row of hot melt holes spaced along the apex, and air holes positioned in relation to the hot melt holes to cause at least some of the filaments dis-

charging therefrom to flare outwardly so that the hot melt filaments deposited on an underlying moving substrate has a lateral dimension greater than the length of the row of hot melt holes. The die may be operated to cause the filaments to be deposited on the substrate in a sideby-side sinusoidal, stitch-like pattern.





EUROPEAN SEARCH REPORT

Application Number EP 99 11 8377

Category	Citation of document with indicat of relevant passages	ion, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
Ρ,Χ	EP 0 866 152 A (J & M) 23 September 1998 (1998 * the whole document *		1-6	D01D4/02 D01D5/098
A	WO 96 34132 A (EXXON CI 31 October 1996 (1996- * the whole document *		1-10	
D	& US 5 618 566 A			
				TECHNICAL FIELDS SEARCHED (Int.Cl.7)
				D01D
	The present search report has been o	drawn up for all claims		
Place of search THE HAGUE		Date of completion of the search 29 February 2000	Tar	rida Torrell, J
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if combined with another ument of the same category nological background -written disclosure mediate document	T : theory or principle E : earlier patent doc after the filling date D : document cited in L : document cited fo	underlying the ument, but publi the application r other reasons	invention shed on, or

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 11 8377

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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	Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP	0866152	Α	23-09-1998	NONE		
WO		A		US EP	5618566 A 0808383 A	08-04-19 26-11-19
			Official Journal of the Euro			

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