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(54) Title: METHOD FOR MAKING SHAPED FILTRATION ARTICLES

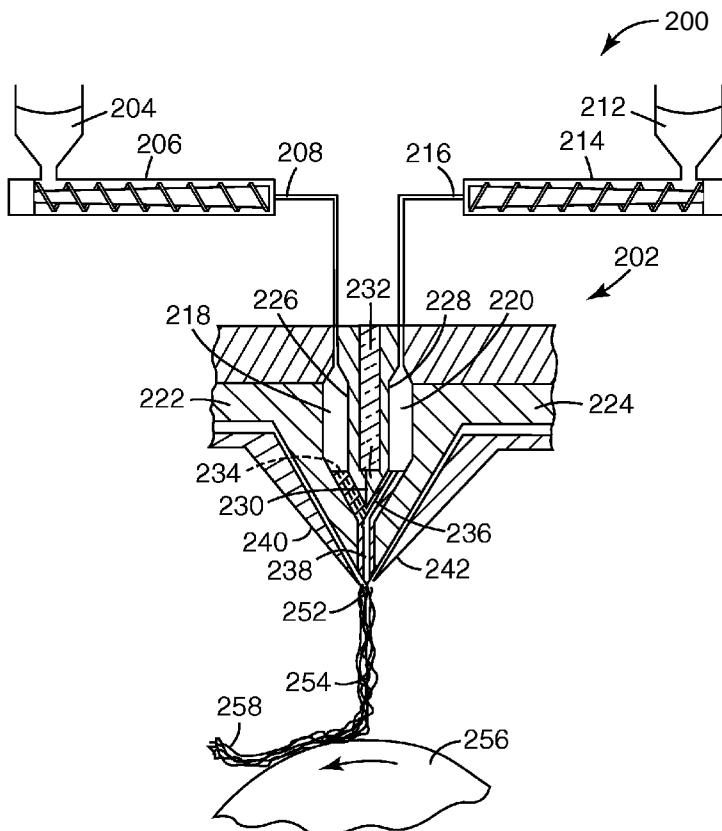


Fig. 2

(57) **Abstract:** Shaped filtration articles are made from a monocomponent nonwoven web formed by flowing first and second fiber-forming materials of the same polymeric composition through first and second die cavities in respective fluid communication with first and second sets of orifices in a meltblowing die tip. The first fiber-forming material flows at a lesser flow rate or viscosity through the first die cavity and first set of orifices to form a set of smaller size filaments and the second fiber-forming material flows at a greater flow rate or viscosity through the second die cavity and second set of orifices to form a set of larger size filaments. The collected nonwoven web contains a meltblown bimodal mass fraction/fiber size mixture of intermingled continuous microfibers and larger size fibers of the same polymeric composition.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 D04H 1/54

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean utility models and applications for utility models since 1975
 Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 eKIPASS(KIPO internal)
 Keywords spinning, filter, nonwoven

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WO 97/37071 A1 (TORAY INDUSTRIES, INC) 09 October 1997 See claim 1 and claim 12	1-21
A	JP 06-207359 A (NIPPON PETROCHEM CO , LTD) 26 July 1994 See claim 12 and figure 1	1-21
A	KR 10-2002-0061648 A (E I DU PONT DE NEMOURS AND COMPANY) 24 July 2002 See claim 1 and figure 1	1-21
A	KR 10-19950-0023751 A (KIMBERLY-CLARK CORP) 18 August 1995 See claim 1 and figure 1	1-21

 Further documents are listed in the continuation of Box C See patent family annex

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- "A" document defining the general state of the art which is not considered to be of particular relevance
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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