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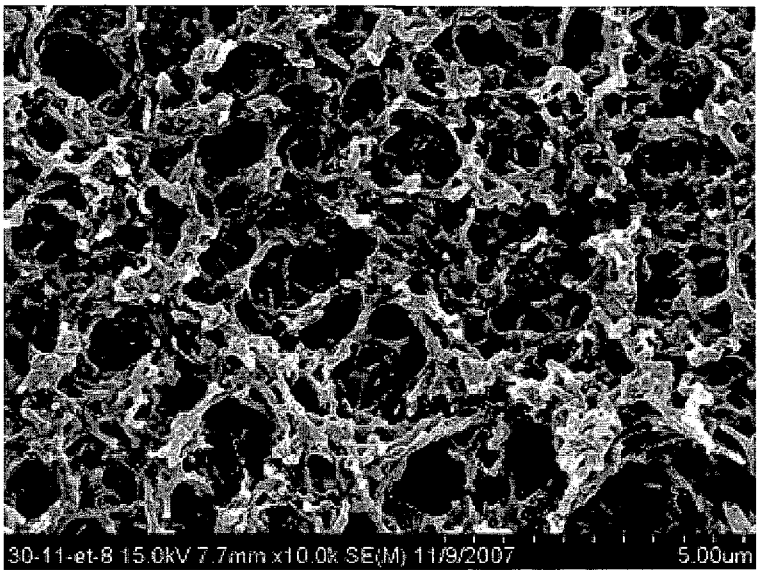
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(54) **Title**: METHOD OF MANUFACTURING THE MICROPOROUS POLYOLEFIN COMPOSITE FILM WITH A THERMALLY STABLE LAYER AT HIGH TEMPERATURE

Fig. 1



(57) **Abstract**: Provided is a method of manufacturing a microporous polyolefin composite film with a thermally stable porous layer at high temperature, particularly, to a method of manufacturing a microporous polyolefin composite film with a thermally stable porous layer at high temperature, comprising preparing a polyolefin microporous film using a composition containing a polyolefin resin; coating a solution, in which a high heat-resistant resin is dissolved in a solvent, on one surface or both surfaces of the polyolefin microporous film; phase-separating the polyolefin microporous film coated with the solution by contacting with a nonsolvent after the coating; and drying the polyolefin microporous film so as to remove the solvent and nonsolvent remained after the phase-separating, and thus forming the thermally stable layer at high temperature.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC8 : H01M 2/16, B32B 27/32, H01M 2/14, H01M 2/16

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)

KOMPASS(KIPO internal) and keywords "microporous, polyolefin, resin, layer and similar terms"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2007-0128512 A1 (Kaimai et al.) 07 June 2007 See the abstract, paragraphs [19], [52] - [74].	1, 3 2,4-7
A	EP 1905586 A1 (Kono et al.) 02 April 2008 See paragraphs [30] - [160].	1-7
A	EP 0814520 A2 (Delnick et al.) 29 December 1997 See the abstract, page 8 line 33 - page 13 line 30.	1-7
A	WO 1993-006626 A1 (Chieng et al.) 01 April 1993 See the abstract.	1-7

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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