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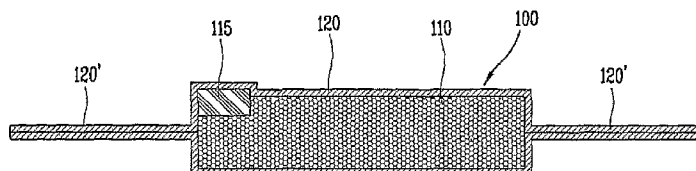
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(54) Title: VACUUM INSULATION PANEL AND INSULATION STRUCTURE OF REFRIGERATOR APPLYING THE SAME



(57) Abstract: A vacuum insulation panel and an insulation structure of a refrigerator applying the same are disclosed. The vacuum insulation panel comprises: a sealing cover (120) having an outermost layer exposed to the outside, a gas shielding layer stacked on the bottom surface of the outermost layer and formed of a thin metal sheet and a metal deposition film, and a heating-fusion bonding layer stacked on the bottom surface of the gas shielding layer and formed of an octane-base material; a core material (110) sealed by the sealing cover (120) in contact with the heating-fusion bonding layer, and provided with an extended insulation portion (130) some parts of which are extended between the bonding portions formed at the sealing cover (120); and a gas permeation preventing layer (125) formed on the sealing cover (120), so that can prevent an external air or moisture from penetrating into a vacuum insulation panel.

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# INTERNATIONAL SEARCH REPORT

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## A CLASSIFICATION OF SUBJECT MATTER

IPC<sup>8</sup>. **F16L 59/065** (2006.01); **F25D 23/06** (2006.01); **E04B 1/80** (2006.01); **B32B 27/32** (2006.01)  
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## B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>8</sup>: F16L, F25D, E04B, B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPODOC, WPI

## C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
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A	--	14,16,17,18, 22
X	EP 1 258 343 A2 (JAMCO CORP) 20 November 2002 (20 11.2002) <i>Abstract, Fig. 8b</i>	6,7
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☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

\* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Information on patent family members

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