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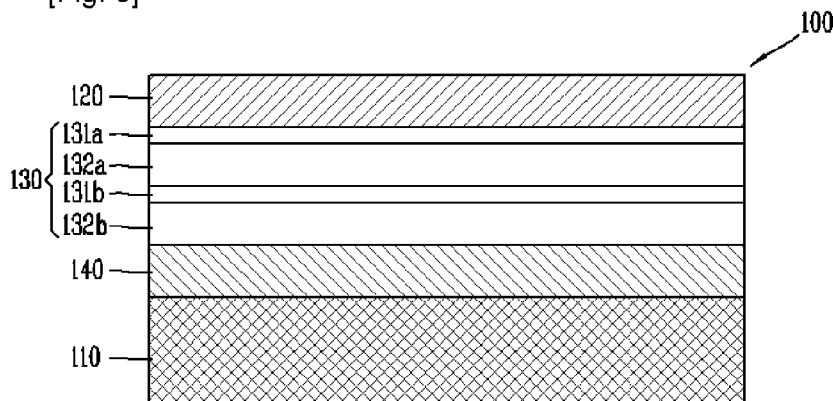
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(54) **Title:** VACUUM INSULATION MATERIAL

[Fig. 6]



(57) **Abstract:** A vacuum insulation material includes a core material, and a wrapping member configured to wrap the core material, wherein the wrapping member comprises an outermost layer externally exposed, a barrier layer located beneath the outermost layer and having at least two laminated polymer layers, each polymer layer having an inorganic layer metalized thereon, and a thermal bonding layer located beneath the barrier layer and contacting the core material, wherein the inorganic layers metalized on the polymer layers, respectively, are separated from each other, at least one of the inorganic layers being more than 600Å in thickness.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2011/006131**A. CLASSIFICATION OF SUBJECT MATTER*****F25D 23/06(2006.01)i, F25D 23/00(2006.01)i***

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)

F25D 23/06; B65D 81/38; B65D 75/30; F16L 59/06

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords:refrigerator,insulation,vacuum

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2006-084077 A (HITACHI HOME & LIFE SOLUTIONS INC.) 30 March 2006 See claims 1-11 and figures 1-6.	1-10 11-20
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Y	JP 2005-106306 A (HITACHI HOME & LIFE SOLUTIONS INC.) 21 April 2005 See claims 1-4 and figures 1-8.	12-20
A	JP 08-159377 A (MATSUSHITA REFRIG CO., LTD.) 21 June 1996 See claims 1-5 and figures 1-4.	1-20
A	US 04669632A A (KAWASAKI; TAMOTSU et al.) 02 June 1987 See claims 1-5 and figures 1-10.	1-20

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

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INTERNATIONAL SEARCH REPORT

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