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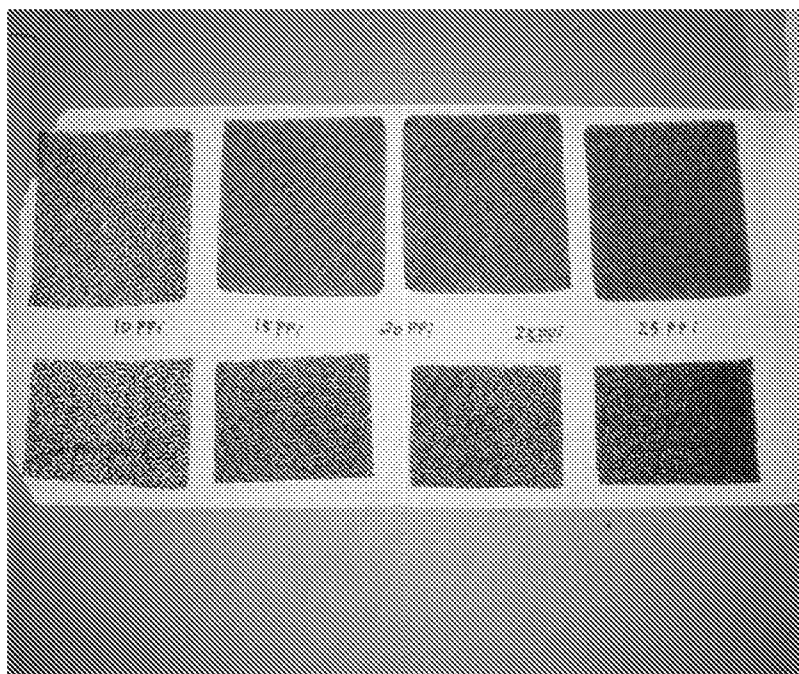
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Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: AEROGEL-FOAM COMPOSITES



(57) Abstract: The invention provides reinforced aerogel monoliths as well as reinforced composites thereof for a variety of uses. Compositions and methods of preparing the monoliths and composites are also provided. Application of these materials in transparent assemblies is also discussed.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B32B 3/26 (2007.10)

USPC - 428/292.1; 252/62

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)

USPC: 428/292.1; 252/62

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

USPC: 428/292.1; 252/62 (text search - see terms below)

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

PubWEST (PGPB,USPT,USOC,EPAB,JPAB); DialogPro (Engineering); Google Patents; FreePatentsOnline

Search Terms: aerogel, alumina, Bilgrien, cell, composite, composite, foam, glass, Gould, iron, matrix, microns, open, percent, Polli, polyolefin, polyurethane, pore size, reticulated, Rhine, silica, titania, transparent, Young

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0077438 A1 (FRANK et al.) 24 April 2003 (24.04.2003), entire document especially para [0001], [0007], [0017], [0029], [0041], [0048], [0051], [0052], [0053], [0055], [0064]	1, 4-6, 8, 15-18, 26-28, 31, 34, 36, 41 --- 2-3, 7, 9-14, 19-25, 29-30, 32, 33, 35, 37-40, 42-46
Y	US 2002/0025427 A1 (SCHWERTFEGER et al.) 28 February 2002 (28.02.2002), entire document, especially para [0013], [0014], [0016], [0024], [0038], [0046]	10-14, 19-25, 37-40, 43-46
Y	US 5,478,867 A (TABOR) 26 December 1995 (26.12.1995), entire document, especially col. 1, ln. 47-52, col. 13, ln. 1-8	2, 12, 13, 29, 32, 33, 35, 42
Y	US 5,744,509 A (WILSON et al.) 28 April 1998 (28.04.1998), col. 14, ln. 30-38	3
Y	US 2002/0094426 A1 (STEPANIAN et al.) 18 July 2002 (18.07.2002), entire document, especially para [0032], [0045], [0065]	7, 9, 20
Y	US 4,764,487 A (LEWIS) 16 August 1988 (16.08.1988), col. 3, ln. 45-50	21
Y	US 4,259,452 A (YUKUTA et al.) 31 March 1981 (31.03.1981), entire document, especially col. 1, ln. 6-10	30

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

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

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"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

"&" document member of the same patent family

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