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(71) Applicant and

(72) Inventor: **SAMPSON, James, K.** [US/US]; 3693 East
Country Road 30, Fort Collins, CO 80528 (US).

(74) Agent: **WIEDMANN, Alfred, K., Jr.**; Santangelo Law
offices, P.C., 125 South Howes, Third Floor, Fort Collins,
CO 80521 (US).

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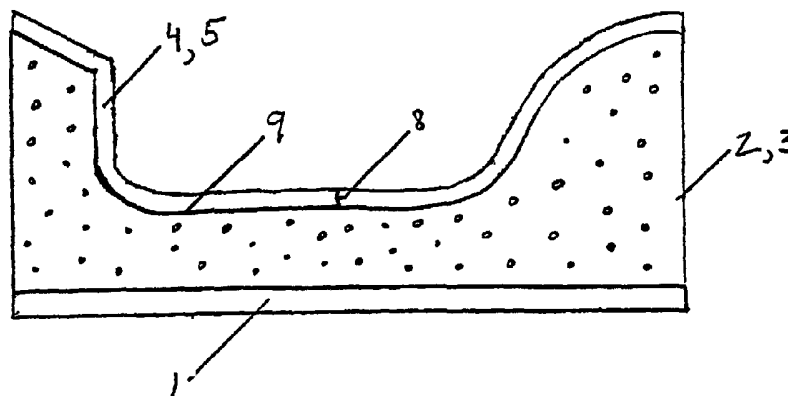
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(54) Title: AUTOCLAVE MOLDING SYSTEM FOR CARBON COMPOSITE MATERIALS



(57) Abstract: In one basic form, at least one embodiment of the invention discloses an autoclave molding process to mold a part having certain coefficient of thermal expansion, wherein the mold involves a sufficiently gas permeable material (3) that serves as a mold foundation (2) and that has a coefficient of thermal expansion that sufficiently matches that of the part to be molded, which may be relatively low, in combination with a two or three dimensionally isotropic, part molding element (4) that also has a sufficiently matching coefficient of thermal expansion and that is made from short reinforcement fiber material, with the intended result that risk unacceptable deformation such as breaking of the material to be molded is sufficiently abated.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 43/02
 US CL : 264/257, 571, 319; 425/389, 403, 405.1, 812; 249/134

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)
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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)
 BRS

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 5,709,893 A (MCCARVILLE et al) 20 January 1998 (20.01.1998), figure 3 and corresponding text.	1-32, 66-169, 179-269, 284-308, 357-398 ----- 33-65, 170-178, 270- 283, 309-356
A	US 2002/0149138 A1 (CAMPBELL et al) 17 October 2002 (17.10.2002), paragraphs 5 and 6.	1-398
A	US 5,382,150 A (HENRIO) 17 January 1995 (17.01.1995), figures 1-3 and corresponding text.	1-398

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 P.O. Box 1450
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Facsimile No. (703) 305-3230

Authorized officer

Donald Heckenberg

Telephone No. (571) 272-1700

ISA/US
 Patent Specialist
