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D-8000 München 2(DE)(54) **Durable melt-blown sheet material.**

(57) A durable fibrous sheet material comprised of a melt-blown fiber web having a plurality of reinforcing fibers extending therethrough is provided. The reinforcing fibers are needled through the web of melt-blown fibers and are then bonded to fibers on the opposing faces of the layer of melt-blown fibers to hold the reinforcing fibers in position. Solid particles can be dispersed in the layer of melt-blown fibers. Such particles are preferably vapor-sorptive particles, e.g., activated carbon, so that the sheet material will sorb vapors passing therethrough. The sheet material is particularly useful as a component of a chemical protective garment.

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
D,A	US-A-4 433 024 (G.L. EIAN) * Claims 1,4-7,12,32,35; column 1, line 28 - column 4 line 31; figure 1 * ---	1-7,13,17	D 04 H 1/56
P,A	EP-A-0 205 736 (RHODIA AG) * Claim 1; column 2, line 35 - column 6, line 17; column 8, lines 17-55; examples 1,2; figures 2,4 * ---	1,10,15	
A	WO-A-8 602 390 (M.M.M.) * Claim 1,2,4-7; page 1, line 34 - page 3, line 34; page 5, line 27 - page 8, line 12 * ---	1,7,10,11,14	
P,A	EP-A-0 212 604 (CHICOPEE) * Claims 1,2,6; page 7, line 28 - page 14, line 13; page 16, line 31 - page 18, line 3 * ---	1,8-10,13,15	
A	US-A-3 476 636 (D.W. CROSBY) * Claims 1,2,4; column 1, line 60 - column 7, line 43; example 9; figures 3,4 * -----	1,8,9,11-13,15	TECHNICAL FIELDS SEARCHED (Int. Cl.4) D 04 H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-10-1989	Examiner BLASBAND I.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			