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(71) Applicant and

- (72) Inventor (for all designated States except US): NONO-MURA, Arthur, M. [US/US]; 4904 North Greentree Drive East, Litchfield Park, AZ 85340 (US).
- (74) Agents: LEMACK, Kevin, S. et al.; Nields & Lemack, 176 E. Main Street-Suite 7, Westboro, MA 01581 (US).

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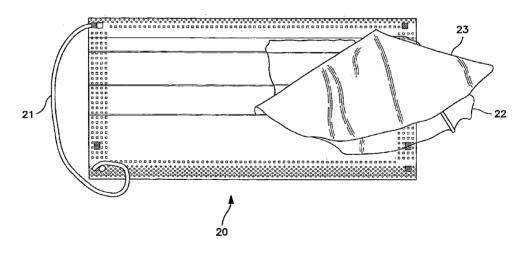


FIG. 2

(57) Abstract: The present invention provides a mask, suitable for wearing, that inhibits the passage of viruses and germs there through. Briefly, the mask comprises a number of individual layers. Each of these layers is treated with a compound designed to destroy viruses and germs, thus retarding the passage of viruses and germs to the next layer, and ultimately to the user. In one embodiment, a layer of acidic material and a separate layer of basic material are utilized in a form suitable to be placed over the user's nose and mouth.



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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT		····
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	US 5,724,964 A (BRUNSON et al) 10 March 1998 (10.03.1998), column 1-column 3, Figures 1-3, column 8, lines 10-15.		1-23
Y	US 4,856,509 A (LEMELSON) 15 August 1989 (15.08.1989), abstractcolumn 9, lines 1-10.		1-23
Y	US 2004/0089304 A1 (BARAKAT et al) 13 May 2004 (13.05.2004), paragraphs 117-130.		1-23
Y	US 6,681,765 B2 (WEN) 27 January 2004 (27.01.2004), column 6, lines 55-65.		3, 4
Y	US 2004/0163649 A1 (SHAO) 26 August 2004 (26.08.2004), paragraph 18.		5, 6
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Further documents are listed in the continuation of Box C. See patent family annex.			
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	nmissioner for Patents . Box 1450	Justine Yu	\
Alexandria, Virginia 22313-1450 Telephone No. (571) 292-3700			
Facsimile No. (571) 273-3201			

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