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[Continued on next page]

(54) Title: AIR FILTRATION AND PURIFICATION APPARATUS

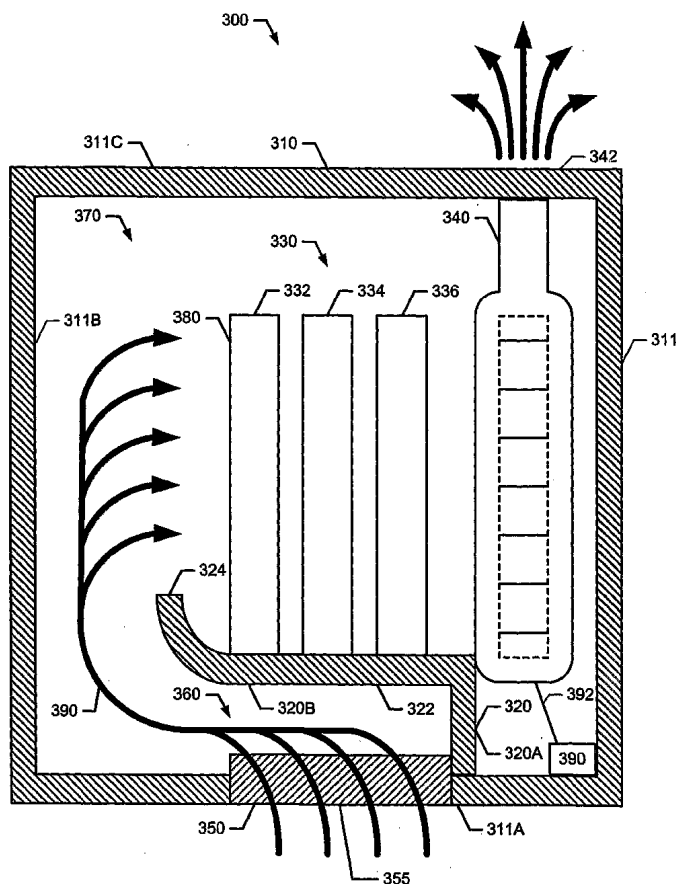


FIG. 3

(57) Abstract: A method and apparatus for processing air is described herein. An example apparatus includes a housing (310), a high-velocity air flow guide (320), a filter assembly (330), and a fan (340). The high-velocity air flow guide (320) includes a first portion (322) and a second portion (324). The first portion (322) is configured to form a passage (360) within the housing (310), and the second portion (324) is configured to divert and accelerate air flow of the ambient air from the passage (360) to a chamber (370) of the housing (310). The filter assembly (330) includes one or more filtering elements configured to receive the ambient air from the chamber (370). The fan (340) is configured to draw the ambient air from the chamber (320) through the filter assembly (330) and to generate processed air from the ambient air.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 55/418;55/467-472

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
(guide\$1 baffle\$1 deflector\$1)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0066469 (OH et al.) 31 March 2005 (31.03.2005), page 3, lines 0039-0041	1-19
Y	US 5,185,015 A (SEARLE) 9, February 1993 (9.02.1993), Abstract,	5,10-19
---	column 1, lines 47-50	-----
A		1-4, 6-9



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