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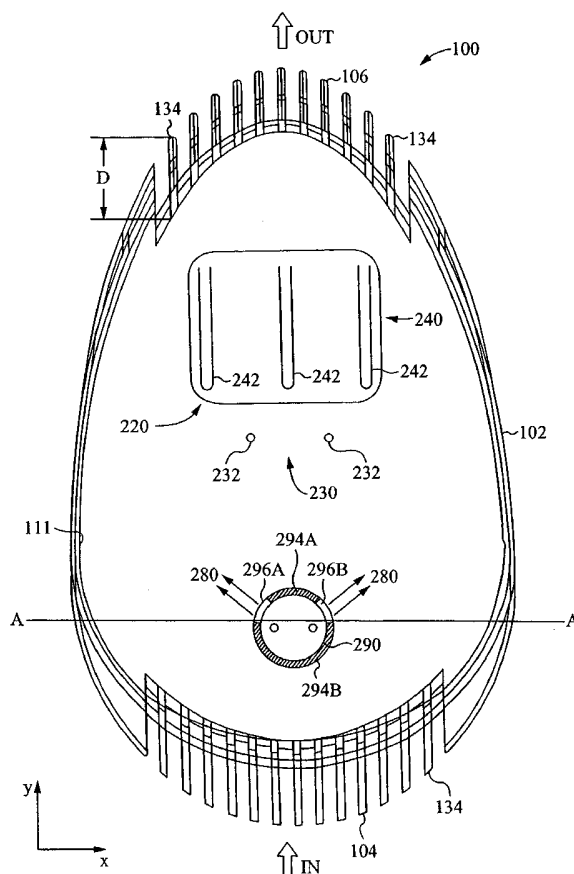
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(54) Title: AIR CONDITIONER DEVICE WITH ENHANCED GERMICIDAL LAMP



(57) Abstract: An air transporting and/or conditioning system (100) comprising a housing (102), an emitter electrode (232) configured within the housing (102), a collector electrode (242) configured within the housing (102) and positioned downstream from the emitter electrode (232), and an integrally shielded germicidal lamp (290) to selectively direct UV light emitted therefrom. The system preferably includes a driver electrode preferably removable from the housing through a side portion of the housing. Preferably, the driver electrode is insulated with a dielectric material and/or a catalyst. Preferably, a removable trailing electrode is configured within the housing and downstream of the collector electrode (242). Preferably, a first voltage source electronically is coupled to the emitter electrode and the collector electrode, and a second voltage source electrically is coupled to the trailing electrode. The second voltage source is independently and selectively controllable of the first voltage source.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

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PCT/US05/26066

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **B01D 39/00**( 2006.01);**A61L 2/00**( 2006.01)

USPC: 422/4,5,22,24,186,186.3;96/223,224

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)

U.S. : 422/4, 5, 22, 24, 186, 186.3; 96/223, 224

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
NONE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,374,941 A (OKRESS) 26 March 1968 (26.03.1968), Fig. 1; Column 2 lines 39-56;	19
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Y		1, 2, 5-8, 10, 13, 14
Y	US 6,497,840 B1 (PALESTRO et al) 24 December 2002 (24. 12. 2002), Column 8 lines 20-56.	1, 2, 5-8, 10, 13, 14
Y	US 2,247,409 A (ROPER) 01 July 1941 (01.07.1941), Fig. 1; Fig. 2; Column 2 lines 47-55; Column 3 lines 1-17.	3, 15, 16, 18
Y	US 5,565,685 A (CZAKO et al) 15 October 1996 (15.10.1996), Fig. 1; Fig. 3; Column lines 3-5.	4, 9, 17
Y	US 6,680,028 A (HARRIS) 20 January 2004 (20.01.2004), Column 3 lines 55-57.	11
Y	US 5,702,507 A (WANG) 30 December 1997 (30.12.1997), Column 1 lines 61-68; Column 2 lines 1-7.	12

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

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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