

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085928 A2

(51) International Patent Classification⁷: **F24F**
(21) International Application Number:
PCT/US2004/008578
(22) International Filing Date: 19 March 2004 (19.03.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/456,413 20 March 2003 (20.03.2003) US

(71) Applicant (*for all designated States except US*):
HUNTAIR INC. [US/US]; 11555 SW Myslony Street,
Tualatin, OR 97062 (US).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **HOPKINS,
Lawrence, G.** [US/US]; 10781 SE Idleman Rd., Portland,
OR 97266 (US).

(74) Agent: **OSTER, Karen, Dana**; Law Office of Karen Dana
Oster, LLC, PMB 1020, 15450 SW Boones Ferry Rd#9,
Lake Oswego, OR 97035 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, 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).

Published:

— *without international search report and to be republished
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: FAN ARRAY FAN SECTION IN AIR-HANDLING SYSTEMS

(57) Abstract: A fan array fan section in an air-handling system comprising includes a plurality of fan units (200) arranged in a fan array and positioned within an air-handling compartment (202). One preferred embodiment may include an array controller (300) programmed to operate the plurality of fan units (200) at substantially peak efficiency. The plurality of fan units (200) may be arranged in a true array configuration, a spaced pattern array configuration, a checker board array configuration, rows slightly offset array configuration, columns slightly offset array configuration, or a staggered array configuration.



WO 2004/085928 A2