

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 March 2023 (02.03.2023)



(10) International Publication Number
WO 2023/026297 A1

(51) International Patent Classification:
F04D 17/16 (2006.01)

(21) International Application Number:
PCT/IN2022/050397

(22) International Filing Date:
27 April 2022 (27.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202141045372 06 October 2021 (06.10.2021) IN

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: INDUCER AIDED MIXED-FLOW CEILING FAN

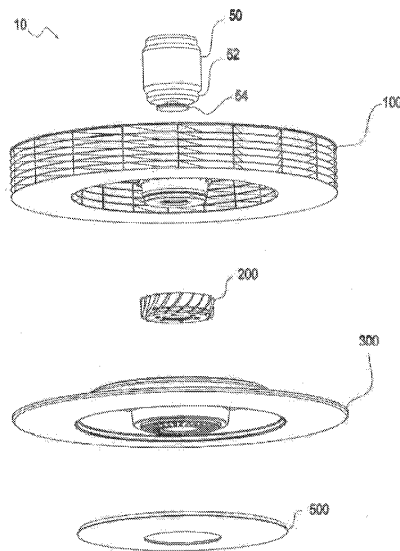


Fig. 1

(57) Abstract: The swirl flow ceiling fan has four major elements. They are: a cylindrical diffuser, an inducer, a stationary enclosure and a safety disc. As the fan rotates, the ambient air is drawn in at the centre. The air which was drawn in by the inducer further gets energised within an enclosed space. The air's velocity gets increased. The charged air is pushed into the numerous spiral compartments of the revolving cylindrical diffuser. Then, finally, the cylindrical diffuser delivers the energised air in to the space. All the features collectively provide a very efficient swirl flow of the air with lesser noise levels and better comfort. It is also found to be cost-effective in its working as well in its manufacturing.

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Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
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- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*
- *upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*