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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
02 October 2025 (02.10.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/202108 A1

(51) International Patent Classification:

F24F 7/00 (2021.01)	*F24F 110/10* (2018.01)
F24F 8/90 (2021.01)	*F24F 110/12* (2018.01)
F24F 11/00 (2018.01)	*F24F 110/20* (2018.01)
F24F 11/47 (2018.01)	*F24F 110/22* (2018.01)
F24F 11/54 (2018.01)	*F24F 110/50* (2018.01)
F24F 11/56 (2018.01)	*F24F 110/64* (2018.01)
F24F 11/72 (2018.01)	*F24F 110/65* (2018.01)
F24F 11/80 (2018.01)	*F24F 110/66* (2018.01)
F24F 11/89 (2018.01)	*F24F 110/70* (2018.01)
F24F 11/62 (2018.01)	

(21) International Application Number:
PCT/EP2025/057955

(22) International Filing Date:
24 March 2025 (24.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PA202430144	29 March 2024 (29.03.2024)	DK
18/905,945	03 October 2024 (03.10.2024)	US

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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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV,

(54) Title: BUILDING VENTILATION SYSTEM AND METHOD FOR VENTILATING A BUILDING

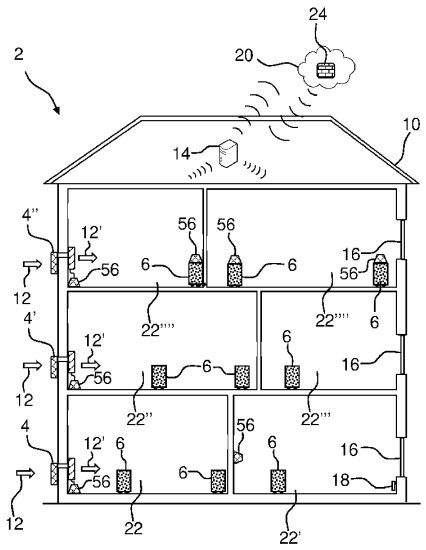

Fig. 2

(57) Abstract: Building ventilation systems (2) comprising one or more air handling units (4, 4', 4") arranged and configured to receive air (12) from outside a building (10) comprising one or more building areas (22, 22', 22", 22''', 22'''') and deliver outdoor air (12) into a building (10) are disclosed. The building ventilation system (2) comprises a plurality of air quality sensors (8, 8', 8") arranged to measure the quality of the air inside the building (10). The building ventilation system (2) comprises a control system (14) connected to the air handling units (4) and configured to receive data from the air quality sensors (8, 8', 8"), wherein the control system (14) is configured to control the activity of the air handling units (4) in dependency of the data from the air quality sensors (8, 8', 8"). The building ventilation system (2) comprises a plurality of air cleaning units (6, 6', 6", 6''') arranged to eliminate gaseous and particulate pollutants from the air (12') inside the building (10). The control system (14) is configured to control the air cleaning units (6, 6', 6", 6''') in dependency of the data from the air quality sensors (8, 8', 8").

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GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

Published:

— *with international search report (Art. 21(3))*