

Title (en)  
OZONE STERILIZER WITH AIR REGENERATION

Title (de)  
OZONSTERILISATOR MIT LUFTREGENERIERUNG

Title (fr)  
STÉRILISATEUR À L'OZONE À RÉGÉNÉRATION D'AIR

Publication  
**EP 4138936 A4 20240522 (EN)**

Application  
**EP 21791649 A 20210301**

Priority  
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• SK 2021050003 W 20210301

Abstract (en)  
[origin: WO2021216008A1] Ozone sterilizer with air regeneration refers to an air-conditioning unit. In the airtight enclosed case (1) a fan (3) is fitted and is electrically connected to the operational control unit (12) by an inlet (17) connected to the power supply and a display element (13), while under the suction of the fan (3) in the case (1) at least one ultraviolet lamp (7) is located above the electrostatic filter (6) and below the electrostatic filter (6) a dust filter (5) is mounted behind at least one of the suction inlets (4). In the discharge part of the fan (3), a catalytic filter (8) is placed in the case (1) behind at least one exhaust outlet (10), the sensor (15) and the gas filter (9) and next to the catalytic filter (8) a switching damper (16) with an actuator (11) is fitted, wherein the sensor (15) is electrically separately connected to the fan (3), the electrostatic filter (6), the ultraviolet lamp (7) and the actuator (11) via the operating control unit (12).

IPC 8 full level  
**A61L 9/015** (2006.01); **A61L 9/22** (2006.01); **B01D 53/86** (2006.01); **F24F 3/16** (2021.01); **F24F 8/108** (2021.01); **F24F 8/158** (2021.01); **F24F 8/22** (2021.01); **F24F 8/26** (2021.01)

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Citation (search report)  
• [I] CN 203550061 U 20140416 - SHANGHAI CNP ENVIRONMENT TECHNOLOGY CO LTD  
• [I] US 2010003164 A1 20100107 - BOURNE NEIL [AU], et al  
• [I] KR 100762818 B1 20071002  
• [A] US 2008092745 A1 20080424 - TSAO HUNG-TA [TW], et al  
• See also references of WO 2021216008A1

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