

Title (en)  
OZONE STERILIZER AND GENERATOR

Title (de)  
OZON-STERILISATOR UND -GENERATOR

Title (fr)  
STERILISATEUR A L'OZONE ET GENERATEUR D'OZONE

Publication  
**EP 0888135 A4 19990707 (EN)**

Application  
**EP 97915869 A 19970317**

Priority  
• US 9703471 W 19970317  
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• US 61864596 A 19960319

Abstract (en)  
[origin: WO9734643A1] An ozone sterilizer includes a generator (10) capable of generating a gas containing at least about 10 % by weight ozone, a holding tank (31), a humidification chamber (33) for receiving the ozonated gas and humidifying it to form a sterilant including at least about 8 % by weight ozone at a humidity of at least about 60 %, a vent (43) for bleeding sterilant over a first catalyst (47), a sterilization chamber (75) for receiving a controlled flow of sterilant which is in fluid communication with a pump (91) for evacuating the sterilization chamber (75) over a second catalyst (89), a vent (85) for bleeding the sterilant from the sterilization chamber and a heater (99). The ozone generating apparatus includes an ozone generator (10) having concentric electrodes and means for generating a corona discharge, a pump (90) for recirculating a portion of the ozone containing gas leaving the generator through a conduit and a heat exchanger (38) for cooling the recirculated portion of the ozone-containing gas.

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**A61L 2/20**; **B01J 19/08**

IPC 8 full level  
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**A61L 2/202** (2013.01); **B01J 19/088** (2013.01); **C01B 13/11** (2013.01); **B01J 2219/0849** (2013.01)

Citation (search report)  
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• [X] DE 2636069 A1 19780216 - SCHUH ROLAND PROF DR  
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• [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 150 (C - 0824) 16 April 1991 (1991-04-16)  
• See references of WO 9734643A1

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