

Title (en)  
APPARATUS FOR GENERATING HIGH-ACTIVITY RADIANT RAYS AND IONS

Title (de)  
APPARAT ZUR HERSTELLUNG VON HOCHAKTIVER STRAHLUNG UND IONEN

Title (fr)  
DISPOSITIF DE PRODUCTION DE RAYONS ET IONS TRES ACTIFS

Publication  
**EP 0975416 A1 20000202 (EN)**

Application  
**EP 98935371 A 19980721**

Priority  
• KR 9800220 W 19980721  
• KR 19980003558 A 19980207

Abstract (en)  
[origin: WO9939808A1] The present invention relates to an apparatus for generating high-activity radiant rays and ions comprising: a high voltage generating part for boosting the input power; an electrostatic induction part for generating a predetermined level of electrostatic potential by causing electrostatic induction, and for branching the high voltage output from the high voltage generating part; at least one protected discharge electrode part electrically connected to the electrostatic induction part; and at least one discharge conductor part for causing inductive discharge, the discharge conductor part being electrically connected to the high voltage generating part and disposed in the vicinity of the protected discharge electrode part. The apparatus for generating high-activity radiant rays and ions in accordance with the invention generates high-activity variant rays with a high efficiency to produce ions so that those active ions may be applied to the sewage treatment and the water or air purification. In addition, the apparatus needs a low manufacturing and operating cost and it is reliable and safe.

IPC 1-7  
**B01D 53/32**; **H01J 27/00**

IPC 8 full level  
**B01D 53/32** (2006.01); **B01D 53/74** (2006.01); **H01J 27/00** (2006.01); **H01J 27/18** (2006.01)

CPC (source: EP KR)  
**B01D 53/323** (2013.01 - EP); **B01D 53/74** (2013.01 - EP); **H01J 27/00** (2013.01 - KR); **H01J 27/18** (2013.01 - EP)

Citation (search report)  
See references of WO 9939808A1

Designated contracting state (EPC)  
DE DK FI FR GB IT NL SE

DOCDB simple family (publication)  
**WO 9939808 A1 19990812**; EP 0975416 A1 20000202; KR 100309551 B1 20011217; KR 980009124 A 19980430

DOCDB simple family (application)  
**KR 9800220 W 19980721**; EP 98935371 A 19980721; KR 19980003558 A 19980207