

Title (en)  
AIR CLEANING FOUNTAIN

Title (de)  
LUFTREINIGUNGSBRUNNEN

Title (fr)  
FONTAINE DE NETTOYAGE DE L'AIR

Publication  
**EP 3395450 A1 20181031 (EN)**

Application  
**EP 18169112 A 20180424**

Priority  
US 201715495133 A 20170424

Abstract (en)  
A self-cleaning fountain includes: a structure (770) having two ends, defining a first flow way for a first fluid to flow along, wherein the structure (770) defines holes (772) for allowing a second fluid to flow through the holes (772); a pump system (814) configured to pump the first fluid to a first end of the structure (770); a distributor (904) located at the first end of the structure (770) and configured to spray the first fluid received from the pump system (814) onto the structure (770); a catch basin located at a second end of the structure (770) for collecting the first fluid that has moved along the flow way to the catch basin; a photocatalytic coating (900) on the structure (770); and a light source (890) configured to direct light on the photocatalytic coating (900).

IPC 8 full level  
**B05B 17/08** (2006.01)

CPC (source: CN EP)  
**B05B 15/00** (2013.01 - CN); **B05B 17/08** (2013.01 - CN); **B05B 17/085** (2013.01 - EP)

Citation (applicant)

- US 5167368 A 19921201 - NASH JOHN [US]
- US 3211378 A 19651012 - HELMUT ZYSK
- US 4881280 A 19891121 - LESIKAR FRED C [US]
- US 5537696 A 19960723 - CHARTIER CLIFFORD E [US]
- US 5738280 A 19980414 - RUTHENBERG DOUGLAS [US]
- US 4747538 A 19880531 - DUNN PATRICIA A [US], et al
- US 1689790 A 19281030 - LEFEVRE JR ARTHUR
- US 1837225 A 19311222 - PAUL LIPSKI
- M. J. WU; T. BAK; P. J. O'DOHERTY; M. C. MOFFITT; J. NOWOTNY; T. D. BAILEY; C. KERSAITIS: "Photocatalysis of Titanium Dioxide for Water Disinfection: Challenges and Future Perspectives", INTERNATIONAL JOURNAL OF PHOTOCHEMISTRY, vol. 2014, 2014, Retrieved from the Internet <URL: <http://dx.doi.org/10.1155/2014/97348>>
- TITANIUM DIOXIDE COATINGS ON STAINLESS STEEL (NANOTECHNOLOGY, 17 March 2017 (2017-03-17), Retrieved from the Internet <URL: <http://what-when-how.com/nanoscience-and-nanotechnology/titanium-dioxide-coatings-on-stainless-steel-nanotechnology/>>
- "Advanced oxidation process", 17 March 2017
- "Air Pollution Control Technology Fact Sheet", ENVIRONMENTAL PROTECTION AGENCY (EPA) WEBSITE, 17 March 2017 (2017-03-17), Retrieved from the Internet <URL: <https://www3.epa.gov/ttn/catc/dir1/fventuri.pdf>>

Citation (search report)

- [XYI] KR 200441741 Y1 20080904
- [Y] US 2017056808 A1 20170302 - HAYDEN JOHN B [US]
- [A] US 2013146783 A1 20130613 - BOODAGHIAN RAZMIK [US], et al
- [A] KR 101417868 B1 20140709 - HAN WOORI CO LTD [KR]
- [A] KR 100740668 B1 20070718 - RAINBOW SCAPE CO LTD [KR]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3395450 A1 20181031; EP 3395450 B1 20210609; CN 108722768 A 20181102**

DOCDB simple family (application)  
**EP 18169112 A 20180424; CN 201810374477 A 20180424**