

Title (en)

METHOD AND SYSTEM FOR PHOTOCATALYTIC REMOVAL OF ORGANIC HALOGENS BY REDUCTION

Title (de)

VERFAHREN UND SYSTEM ZUR PHOTOKATALYTISCHEN ENTFERNUNG VON ORGANISCHEN HALOGENEN DURCH REDUKTION

Title (fr)

PROCEDE ET SYSTEME POUR L' ELIMINATION PHOTOCATALYTIQUE D' HALOGENES ORGANIQUES PAR REDUCTION

Publication

EP 1971552 A1 20080924 (EN)

Application

EP 07700151 A 20070109

Priority

- DK 2007000010 W 20070109
- DK PA200600049 A 20060112

Abstract (en)

[origin: WO2007079749A1] The present invention concerns a method and a system with one or more reactor chambers (5) for photocatalytic reduction in connection with oxidation reactions for treatment of water with polychromatic light, preferably in the UV range, where the reactor chamber (5) is coated with a photocatalyst and to which may be added one or more oxidation chemicals, and where one or several types of lamps (2) can be adapted to the processes. Further is provided a positioning of an outlet channel (9) for extracting a water flow for the production of halogens, and the positioning of a dosage of halogens into the water system so as to reduce the formation of disinfection by-products.

IPC 8 full level

C02F 1/32 (2006.01); **C02F 1/72** (2006.01)

CPC (source: EP)

B01J 19/0066 (2013.01); **B01J 19/123** (2013.01); **B01J 19/1812** (2013.01); **B01J 19/1818** (2013.01); **C02F 1/325** (2013.01); **C02F 1/725** (2013.01); **B01J 2219/0892** (2013.01); **C02F 1/4674** (2013.01); **C02F 2103/42** (2013.01); **C02F 2201/3222** (2013.01); **C02F 2201/3227** (2013.01); **C02F 2201/3228** (2013.01); **C02F 2201/328** (2013.01); **C02F 2303/185** (2013.01); **C02F 2305/10** (2013.01)

Citation (search report)

See references of WO 2007079749A1

Cited by

CN113321367A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007079749 A1 20070719; WO 2007079749 A8 20070913; EP 1971552 A1 20080924

DOCDB simple family (application)

DK 2007000010 W 20070109; EP 07700151 A 20070109