

Title (en)  
TITANIUM COAGULANT FOR NATURAL AND WASTE WATER PURIFICATION AND DISINFECTION, SAFE METHOD FOR PRODUCING THEREOF, AND METHOD FOR UTILIZING THEREOF

Title (de)  
TITANKOAGULATIONSMITTEL ZUR REINIGUNG UND DESINFEKTION VON NATÜRLICHEM WASSER UND ABWASSER, SICHERES HERSTELLUNGSVERFAHREN DAFÜR UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)  
COAGULANT AU TITANE POUR LA PURIFICATION ET LA DÉSINFECTION D'EAU NATURELLE ET USÉE, PROCÉDÉ SÛR POUR LE PRODUIRE ET PROCÉDÉ POUR L'UTILISER

Publication  
**EP 2170772 A4 20110504 (EN)**

Application  
**EP 07861071 A 20071129**

Priority  
• RU 2007000669 W 20071129  
• RU 2007124531 A 20070702

Abstract (en)  
[origin: WO2009005393A1] The invention relates to the field of ecology, particularly to the technology of natural water purification during water conditioning and physical-and-chemical wastewater treatment from toxic compounds of natural and technogenic origin involving various coagulants, and it could be used for human state improvement and health maintenance and for environment protection. The fundamental distinction of the claimed invention from the prior art consists in obtaining the new coagulant for natural water purification and high-level disinfection. The technical result consists in obtaining high-quality potable water with properties being stable for a long period of time in achieving the effective, long-term and reliable waste water purification for the purpose of providing human and environment ecological safety. After 30 minutes of disinfecting titanium coagulant action, the sharp suppression of infection activity of the human rotavirus, hepatitis A virus proceeds, as well as severe suppressing impact on the noravirus.

IPC 8 full level  
**C01G 23/00** (2006.01); **C02F 1/50** (2006.01); **C02F 1/52** (2006.01); **C02F 103/04** (2006.01)

CPC (source: EP)  
**C01G 23/00** (2013.01); **C02F 1/5236** (2013.01); **C01P 2006/80** (2013.01); **C02F 1/56** (2013.01); **C02F 2103/001** (2013.01); **C02F 2103/007** (2013.01); **C02F 2303/04** (2013.01)

Citation (search report)  
• [X] US 2002000138 A1 20020103 - ZHOU LING [US], et al  
• See references of WO 2009005393A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
HR RS

DOCDB simple family (publication)  
**WO 2009005393 A1 20090108**; EP 2170772 A1 20100407; EP 2170772 A4 20110504; EP 2567943 A1 20130313; RU 2007124531 A 20090110

DOCDB simple family (application)  
**RU 2007000669 W 20071129**; EP 07861071 A 20071129; EP 12190649 A 20071129; RU 2007124531 A 20070702