

Title (en)

METHOD FOR PURIFYING RUNNING WATERS

Title (de)

VERFAHREN ZUR REINIGUNG VON STRÖMENDEN WÄSSERN

Title (fr)

PROCEDE POUR PURIFIER DES EAUX EN ECOULEMENT

Publication

EP 1252103 A2 20021030 (DE)

Application

EP 00993808 A 20001102

Priority

- DE 0003978 W 20001102
- DE 10002927 A 20000125

Abstract (en)

[origin: DE10002927A1] The invention relates to a method for purifying running groundwater, leakage water, pit water and surface water by influencing the concentration of ions of normally undesired radioactive and non-radioactive matters in groundwater and surface water by means of galvanic elements. The aim of the invention is especially to purify the waters of uranium and arsenic. The aim of the invention is also to simultaneously separate the uranium and arsenic compounds from the waters in a highly effective manner, whereby said compounds are present as impurities in the waters. The aim of the invention is further to also use said method for a plurality of other ions of radioactive and non-radioactive matters. According to the invention, a base metal in the form of an easily oxidable metal is used. A catalytically acting matter and a matter for immobilising the harmful inorganic substance that is present in the dissolved form are simultaneously used. The invention also relates to the materials of the matters and the physical shaped thereof. The invention further relates to the galvanic embodiment of the method.

IPC 1-7

C02F 1/461

IPC 8 full level

C02F 1/461 (2006.01); **C02F 1/70** (2006.01); **G21F 9/06** (2006.01)

CPC (source: EP)

C02F 1/46176 (2013.01); **C02F 1/705** (2013.01); **G21F 9/06** (2013.01); **C02F 2101/006** (2013.01); **C02F 2101/103** (2013.01); **C02F 2101/20** (2013.01); **C02F 2103/001** (2013.01)

Citation (search report)

See references of WO 0155034A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10002927 A1 20010802; AU 2349701 A 20010807; EP 1252103 A2 20021030; WO 0155034 A2 20010802; WO 0155034 A3 20020131

DOCDB simple family (application)

DE 10002927 A 20000125; AU 2349701 A 20001102; DE 0003978 W 20001102; EP 00993808 A 20001102