

Title (en)

METHOD FOR DETERMINING THE DEPOSITS OF COMPONENTS FROM A LIQUID ON SURFACES, IN PARTICULAR IN LIQUID PUMPING MACHINES

Title (de)

VERFAHREN ZUM ERMITTELN VON ABLAGERUNGEN VON BESTANDTEILEN EINER FLÜSSIGKEIT AN OBERFLÄCHEN, INSBESONDERE IN FLÜSSIGKEITSFÜHRENDEN MASCHINEN

Title (fr)

PROCEDE POUR DETECTER DES DEPOTS DE COMPOSANTS D'UN LIQUIDE SUR DES SURFACES, NOTAMMENT DANS DES MACHINES ACHEMINANT DES LIQUIDES

Publication

EP 1332253 A1 20030806 (DE)

Application

EP 01974329 A 20011005

Priority

- DE 10053220 A 20001026
- EP 0111527 W 20011005

Abstract (en)

[origin: WO0234992A1] The invention relates to a method and device for determining the deposits of components from a liquid on surfaces, in particular in liquid pumping machines, comprising at least one body upon the surface of which said deposits occur, which affect the properties of an electromagnetic radiation, at least one transmitter and at least one receiver which measures the electromagnetic radiation emitted by the transmitter for the determination of the deposits. According to the invention, a calibration and a descaling of the sensor body may be avoided in a simple manner and whilst guaranteeing the secure function of the method and device, whereby any deposits of components from the liquid are removed from the surface of the body, without moving the body, at the beginning of a new measuring period.

IPC 1-7

D06F 39/00; **A47L 15/42**; **A47L 15/46**

IPC 8 full level

A47L 15/42 (2006.01); **D06F 39/00** (2006.01)

CPC (source: EP US)

A47L 15/4229 (2013.01 - EP US); **A47L 15/4297** (2013.01 - EP US)

Citation (search report)

See references of WO 0234992A1

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)

WO 0234992 A1 20020502; AT E359388 T1 20070515; DE 10053220 A1 20020508; DE 50112345 D1 20070524; EP 1332253 A1 20030806; EP 1332253 B1 20070411; ES 2283435 T3 20071101; US 2004000320 A1 20040101; US 7175715 B2 20070213

DOCDB simple family (application)

EP 0111527 W 20011005; AT 01974329 T 20011005; DE 10053220 A 20001026; DE 50112345 T 20011005; EP 01974329 A 20011005; ES 01974329 T 20011005; US 42221103 A 20030424