

Title (en)
APPARATUS AND PROCESS THEREWITH

Title (de)
VORRICHTUNG UND VERFAHREN DAMIT

Title (fr)
APPAREIL ET PROCEDE ASSOCIE

Publication
EP 1648600 A1 20060426 (EN)

Application
EP 04778197 A 20040709

Priority

- US 2004022560 W 20040709
- US 48645603 P 20030711
- US 48732203 P 20030714
- US 79455704 A 20040305

Abstract (en)
[origin: WO2005007281A1] An apparatus that can be used for producing chlorine dioxide is provided. The apparatus comprises a single fluid proportioning device (20), which comprises three or more fluid transferring devices, a conduit to the inlet (21, 22, 23) of each fluid transferring device, a conduit to the outlet (31, 32, 33) of each fluid transferring device, a water inlet (11) to the device, and a water outlet (12) from the device in which the fluid transferring device is proportionally actuated by the flow of water through the device. Also provided is a process that can be used to produce chlorine dioxide. The process comprises flowing water through the fluid proportioning device to create a downstream water and to actuate the fluid transferring devices; drawing three or more precursor chemicals each from a separate source and flowing each chemical separately through one of the fluid transferring devices; and injecting the precursor chemicals into the downstream water.

IPC 1-7
B01F 15/04; C01B 11/02; C02F 1/76; A61L 2/18

IPC 8 full level
A01K 7/02 (2006.01); **B01F 15/04** (2006.01); **C01B 11/02** (2006.01); **C01B 11/08** (2006.01); **C01B 11/10** (2006.01); **C02F 1/68** (2006.01); **C02F 1/76** (2006.01); **B01F 3/08** (2006.01); **B01F 15/00** (2006.01); **C02F 1/66** (2006.01)

CPC (source: EP)
A01K 7/02 (2013.01); **B01F 35/831** (2022.01); **C01B 11/024** (2013.01); **C01B 11/026** (2013.01); **C01B 11/08** (2013.01); **C01B 11/10** (2013.01); **C02F 1/685** (2013.01); **C02F 1/76** (2013.01); **B01F 23/40** (2022.01); **B01F 35/32015** (2022.01); **C02F 1/66** (2013.01); **C02F 2103/026** (2013.01); **C02F 2209/40** (2013.01)

Citation (search report)
See references of WO 2005007281A1

Cited by
CN111887171A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2005007281 A1 20050127; CA 2527306 A1 20050127; EP 1648600 A1 20060426; JP 2007534455 A 20071129; TW 200510245 A 20050316

DOCDB simple family (application)
US 2004022560 W 20040709; CA 2527306 A 20040709; EP 04778197 A 20040709; JP 2006520298 A 20040709; TW 93119130 A 20040629