

Title (en)

PROCESS AND STRUCTURE FOR SUPERACCELERATING NATURE, PRODUCING A CONTINUOUS SUPPLY OF FRESH WATER FROM SALT WATER BY USING SOLAR, WIND, AND WAVE ENERGY

Title (de)

VERFAHREN UND KONSTRUKTION ZUR SUPERBESCHLEUNIGUNG DER NATUR UNTER ERZEUGUNG EINER KONTINUIERLICHEN VERSORGUNG VON FRISCHWASSER AUS SALZWASSER DURCH VERWENDUNG VON SONNEN-, WIND- UND WELLENENERGIE

Title (fr)

PROCEDE ET STRUCTURE POUR SURACCELERER LA NATURE, PRODUIRE UNE ALIMENTATION CONTINUE D'EAU FRAICHE A PARTIR D'EAU SALEE PAR ENERGIE SOLAIRE, EOLIENNE ET ENERGIE DES VAGUES

Publication

**EP 1499408 A4 20051116 (EN)**

Application

**EP 03724394 A 20030430**

Priority

- US 0313712 W 20030430
- US 37776902 P 20020502

Abstract (en)

[origin: WO03092847A2] A continuous supply of fresh water achieved through desalinization by a system of Venturi shafts to increase the velocity and pressure of air flow allowing for increased condensation and processing of evaporated water through a structure (1) that incorporates a blackened evaporation surface (16), concave Venturi wind walls (50), a vertical Venturi wind shaft (10), condensation chambers (5) connected by horizontally stacked hollow cylinders (61), a heat transfer duct (40) that draws cool air from a water body, vents hot air through an air exhaust port (48), and a water drainage port (35) that flows water to a reservoir (36).

IPC 1-7

**B01D 1/00**; **B01D 3/02**; **C02F 1/04**; **C02F 1/14**; **B01D 3/34**; **B01D 5/00**

IPC 8 full level

**C02F 1/04** (2006.01); **B01D 1/00** (2006.01); **B01D 3/34** (2006.01); **B01D 5/00** (2006.01); **C02F 1/14** (2006.01)

CPC (source: EP)

**B01D 3/346** (2013.01); **B01D 5/0036** (2013.01); **C02F 1/14** (2013.01); **C02F 2103/08** (2013.01); **Y02A 20/124** (2017.12); **Y02A 20/141** (2017.12); **Y02A 20/142** (2017.12); **Y02A 20/144** (2017.12); **Y02A 20/212** (2017.12)

Citation (search report)

- [X] US 5316626 A 19940531 - BLONDEL GUY [FR]
- [A] DE 2507593 A1 19760902 - KRAUSS RALF HORST
- [A] US 3257291 A 19660621 - JOSEPH GERBER HEINZ
- See references of WO 03092847A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 03092847 A2 20031113**; **WO 03092847 A3 20040415**; AR 039781 A1 20050302; AU 2003231258 A1 20031117; AU 2003231258 B2 20100708; CN 1649652 A 20050803; EP 1499408 A2 20050126; EP 1499408 A4 20051116; IL 164873 A0 20051218; IL 164873 A 20080605; JP 2005524517 A 20050818; MX PA04010729 A 20050217; NZ 536005 A 20100827; ZA 200408754 B 20060726

DOCDB simple family (application)

**US 0313712 W 20030430**; AR P030101502 A 20030429; AU 2003231258 A 20030430; CN 03809968 A 20030430; EP 03724394 A 20030430; IL 16487304 A 20041027; JP 2004501024 A 20030430; MX PA04010729 A 20030430; NZ 53600503 A 20030430; ZA 200408754 A 20041028