

Title (en)
APPARATUS FOR USE OF FLOW ENERGY

Title (de)
VORRICHTUNG ZUR NUTZUNG VON STRÖMUNGSENERGIE

Title (fr)
Dispositif d'utilisation de l'énergie d'écoulement

Publication
EP 2007982 A1 20081231 (DE)

Application
EP 07722210 A 20070411

Priority

- DE 2007000652 W 20070411
- DE 102006017963 A 20060413
- DE 102006057677 A 20061205

Abstract (en)
[origin: WO2007118462A1] The apparatus for use of flow energy has elongated circumferential elements (18) with incident-flow surfaces (34, 35) facing the flow, which elements (8) are connected parallel to one another at intervals to form a rotating cage (1) or to form a strip, which is circumferential on a guide and in which they form crossbars, and the rotation axis or deflection axes is or are arranged transversely to the flow direction, with the elements (8) each having two incident-flow surfaces (34, 35). The two incident-flow surfaces (34, 35) may have the capability to swivel into the direction facing the wind by rotation of the elements (8) when the rotor (1) or strip is running. Outside the rotating cage (1), the apparatus may be provided with essentially radially aligned guide walls (22), and the rotor (1) and the walls (22) may be provided with a roof (24) in the form of a flat truncated cone.

IPC 8 full level
F03D 3/04 (2006.01); **F03D 5/02** (2006.01); **F03D 5/04** (2006.01); **F03D 9/00** (2006.01)

CPC (source: EP US)
F03D 3/02 (2013.01 - EP US); **F03D 3/0409** (2013.01 - EP US); **F03D 3/0427** (2013.01 - EP US); **F03D 3/049** (2013.01 - EP US); **F03D 5/02** (2013.01 - EP US); **F03D 5/04** (2013.01 - EP US); **F03D 9/25** (2016.05 - EP US); **F03D 15/10** (2016.05 - EP US); **H02S 10/12** (2014.12 - EP US); **F05B 2210/16** (2013.01 - EP US); **F05B 2210/18** (2013.01 - EP US); **F05B 2220/7066** (2013.01 - EP US); **F05B 2220/7068** (2013.01 - EP US); **F05B 2240/217** (2013.01 - EP US); **F05B 2240/231** (2013.01 - EP US); **F05B 2240/301** (2013.01 - EP US); **Y02B 10/10** (2013.01 - EP); **Y02B 10/30** (2013.01 - EP US); **Y02E 10/50** (2013.01 - EP); **Y02E 10/70** (2013.01 - EP US); **Y02E 10/74** (2013.01 - EP US)

Citation (search report)
See references of WO 2007118462A1

Citation (examination)

- WO 8204289 A1 19821209 - DREES HERMAN M
- AT 397839 B 19940725 - SCHWEIGHOFER FRANZ [AT], et al

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)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006057677 A1 20071018; EP 2007982 A1 20081231; US 2009169354 A1 20090702; US 8192140 B2 20120605; WO 2007118462 A1 20071025

DOCDB simple family (application)
DE 102006057677 A 20061205; DE 2007000652 W 20070411; EP 07722210 A 20070411; US 22616607 A 20070411