

Title (en)
LIGHTER-THAN-AIR CRAFT FOR ENERGY-PRODUCING TURBINES

Title (de)
LEICHTER-ALS-LUFT-FAHRZEUG FÜR ENERGIEERZEUGENDE TURBINEN

Title (fr)
ENGIN PLUS LÉGER QUE L'AIR POUR TURBINES DE PRODUCTION D'ÉNERGIE

Publication
EP 2879950 A4 20160323 (EN)

Application
EP 13826340 A 20130802

Priority
• US 201213565916 A 20120803
• US 2013053421 W 20130802

Abstract (en)
[origin: WO2014022770A1] A wind-based power generating system provides a wind energy converter for converting wind energy into another form of energy using a lighter-than-air craft configured to produce a positive net lift. The net lift includes both a net aerodynamic lift and a net buoyant lift. A tethering mechanism is configured to restrain the lighter-than-air craft with respect to the ground. The lighter-than-air craft defines an interior volume for containing a lighter-than-air gas, and the lighter-than-air craft has a fore section and an aft section. The tethering system has at least one attachment point on the fore section of the lighter-than-air craft and at least one attachment point on the aft section of the lighter-than-air craft. The lighter-than-air craft provides a stable aerodynamic moment with respect to a yaw axis about a center-of-mass of the lighter-than-air craft. The craft can be formed in a variety of aerodynamic profiles/shapes.

IPC 8 full level
B64B 1/02 (2006.01); **B64B 1/50** (2006.01); **F03D 1/02** (2006.01); **F03D 1/04** (2006.01); **F03D 9/00** (2016.01)

CPC (source: EP US)
B64B 1/42 (2013.01 - EP); **B64B 1/50** (2013.01 - EP); **F03D 3/0427** (2013.01 - EP US); **F03D 13/20** (2016.05 - EP); **B64B 2201/00** (2013.01 - EP); **F05B 2240/922** (2013.01 - EP); **Y02E 10/728** (2013.01 - EP); **Y02E 10/74** (2013.01 - EP)

Citation (search report)
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• See references of WO 2014022770A1

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