

Title (en)
FLUID TURBINE

Title (de)
FLÜSSIGKEITSTURBINE

Title (fr)
TURBINE À FLUIDE

Publication
EP 2534372 A4 20140903 (EN)

Application
EP 11742856 A 20110211

Priority

- US 91450910 A 20101028
- US 41561010 P 20101119
- US 98308210 A 20101231
- US 30333910 P 20100211
- US 74934110 A 20100329
- US 33272210 P 20100507
- US 2011024509 W 20110211

Abstract (en)
[origin: WO2011100536A1] A shrouded fluid turbine comprises an impeller and a turbine shroud surrounding the impeller. The inlet of the turbine shroud is flared. The shroud includes alternating inward and outward curving lobe segments along a trailing edge of the turbine shroud. The inward and outward curving lobe segments have exposed lateral surfaces, or in other words do not have sidewalls joining the inward and outward curving lobe segments. This allows for both transverse mixing and radial mixing of air flow through the turbine shroud with air flow passing along the exterior of the turbine shroud.

IPC 8 full level
F03D 1/04 (2006.01)

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Citation (search report)

- [A] US 2008232957 A1 20080925 - PRESZ WALTER M [US], et al
- [A] US 2002125340 A1 20020912 - BIRCH NIGEL T [GB], et al
- [A] WO 2008025178 A1 20080306 - FACHHOCHSCHULE ZENTRALSCHWEIZ [CH], et al
- [A] US 2002067988 A1 20020606 - ANGELIS WALTER GEORG [DE]
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- See references of WO 2011100536A1

Designated contracting state (EPC)
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