

Title (en)

Turbine for generating power in a fluid stream

Title (de)

Turbine zur Energieerzeugung in einem Fluidstrom

Title (fr)

Turbine pour produire de l'énergie dans un courant de fluide

Publication

**EP 1561899 A1 20050810 (EN)**

Application

**EP 03104964 A 20031223**

Priority

EP 03104964 A 20031223

Abstract (en)

A turbine for generating power in a fluid stream comprises a tubular housing (1) in which a tubular turbine blade carrier body (2) is supported by a bearing assembly (3). One or more turbine blades (4A-D) protrude from an inner surface of the tubular carrier body. The turbine blades (4A-D) have free tips that surround a central opening (5), which provides a passage for equipment and inhibits accumulation of debris and fouling between the turbine blades (4A-D). The turbine is suitable for generating electrical power in wells or pipelines. <IMAGE>

IPC 1-7

**E21B 41/00**; F01D 5/03

IPC 8 full level

**E21B 41/00** (2006.01)

CPC (source: EP)

**E21B 41/0085** (2013.01); **F01D 5/03** (2013.01); **F03B 13/00** (2013.01); **F05B 2250/25** (2013.01)

Citation (search report)

- [X] US 2509442 A 19500530 - RUDOLPH MATHEISEL
- [X] CA 2352673 A1 20030105 - PALMA FLORENCIO NETO [CA]
- [A] WO 02091553 A1 20021114 - SPRING GREGSON WILLIAM MARTIN [GB]
- [AD] US 5839508 A 19981124 - TUBEL PAULO [US], et al

Cited by

CN111272141A; GB2426554A; GB2451818B; GB2451818A; US2016090821A1; US9638010B2; GB2415975A; GB2415975B; AU2005202895B2; US7707898B2; US10309197B2; WO2011141219A1

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)

**EP 1561899 A1 20050810**

DOCDB simple family (application)

**EP 03104964 A 20031223**