

Title (en)  
INDUCED HOLLOW SCREW DRIVING APPARATUS

Title (de)  
VORRICHTUNG ZUM EINTREIBEN HOHLER SCHRAUBEN

Title (fr)  
APPAREIL D'ENTRAÎNEMENT INDUIT À VIS CREUSE

Publication  
**EP 2915739 A1 20150909 (EN)**

Application  
**EP 13851650 A 20131016**

Priority

- CN 201210436592 A 20121105
- CN 2013085275 W 20131016

Abstract (en)

An induced hollow spiral driving apparatus comprises a shell (6) shaped like a round pipe and having a central through hole in an axial direction; a motor rotor (1) is disposed in the through hole of the shell (6) through two bearings (4) and has a central through hole in an axial direction; spiral rings (2.1 and 2.2) used for driving are disposed on an inner wall of the through hole of the motor rotor (1); a drive block (5) is inserted in the sealed shell (6) to induce an outer wall (3) of the rotor (1), so as to drive the rotor (1) to rotate. The spiral ring driving manner of the driving apparatus has small friction and noise, and the overall driving efficiency thereof exceeds that of existing driving devices such as a propeller; the driving apparatus further has advantages such as being no leakage, no coupling, no spark, no cavitation, capable of self-speed regulation, capable of turning, magnetizable and extendable, capable of self-cleaning, maintenance-free, and having a long service life.

IPC 8 full level  
**B63H 19/00** (2006.01); **B63H 1/12** (2006.01); **F04C 28/06** (2006.01); **F04D 3/02** (2006.01); **F04D 13/06** (2006.01); **F04D 19/00** (2006.01); **F04D 25/06** (2006.01)

CPC (source: EP US)  
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