

Title (en)
ELECTRO-MECHANICAL SURGICAL DEVICE

Title (de)
ELEKTROMECHANISCHE CHIRURGISCHE VORRICHTUNG

Title (fr)
DISPOSITIF CHIRURGICAL ELECTROMECHANIQUE

Publication
EP 1408843 A2 20040421 (EN)

Application
EP 02749575 A 20020611

Priority
• US 0218381 W 20020611
• US 88778901 A 20010622

Abstract (en)
[origin: EP2316345A1] A surgical device, comprising: an elongated shaft (20) having a first coupling (26); and a surgical instrument (250,2250) including at least one movable element (256,2256,264,2264), the elongated shaft including at least one rotatable drive shaft (30,32) configured to effect movement of the at least one movable element; characterised in that the surgical instrument has a second coupling, the second coupling being complimentary to and configured to couple with the first coupling; wherein the elongated shaft is configured to be inserted into a body via a first orifice and the surgical instrument is configured to be inserted into the body via one of the first orifice and a second orifice; and wherein the elongated shaft is configured to be-coupled with the surgical instrument via the first coupling and the second coupling after the elongated shaft is inserted into the body via the first orifice and after the surgical instrument is inserted into the body via the one of the first orifice and the second orifice.

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IPC 8 full level
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Citation (search report)
See references of WO 03000138A2

Citation (examination)
http://en.wikipedia.org/wiki/Worm_gear "A worm gear, or worm wheel or worm drive, is a type of gear that consists of a cylinder with a spiral groove mounted on a shaft. It is used to greatly reduce rotational speed, or to allow higher torque to be transmitted."

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 2316345 A1 20110504; **EP 2316345 B1 20161221**; AU 2002320076 A1 20030108; CA 2451558 A1 20030103; CA 2451558 C 20130806; CA 2814279 A1 20030103; CA 2814279 C 20151229; CA 2814512 A1 20030103; CA 2814512 C 20151229; CN 100337596 C 20070919; CN 1547454 A 20041117; EP 1408843 A2 20040421; EP 3158942 A1 20170426; EP 3158942 B1 20180808; JP 2004532704 A 20041028; JP 4268038 B2 20090527

DOCDB simple family (application)
EP 10011960 A 20020611; AU 2002320076 A 20020611; CA 2451558 A 20020611; CA 2814279 A 20020611; CA 2814512 A 20020611; CN 02816501 A 20020611; EP 02749575 A 20020611; EP 16196595 A 20020611; JP 2003506589 A 20020611