

(12) **United States Patent**  
**Tourrel et al.**

(10) **Patent No.:** **US 9,409,018 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

- (54) **DEVICE IMPLANTABLE UNDER SKIN**
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- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: **14/468,435**
- (22) Filed: **Aug. 26, 2014**
- (65) **Prior Publication Data**  
US 2015/0088226 A1 Mar. 26, 2015
- (30) **Foreign Application Priority Data**  
Sep. 26, 2013 (EP) ..... 13186153

(58) **Field of Classification Search**  
None  
See application file for complete search history.

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(57) **ABSTRACT**

A cochlear implant includes a sealed housing containing electronics for at least stimulation or collection of data and at least one antenna for communicating with an external device and a magnet configured to hold the external device in proximity to the sealed housing. The sealed housing includes an upper cover being closest to the skin when the device is implanted, and a lower cover that is hermetically connected to the upper cover. The lower cover includes an elevated region, a recessed region, and at least one feedthrough element formed in the recessed region of the lower cover. The recessed region provides space for a lead to connect to the feedthrough element and protects it from shock and other environmental risks.

**22 Claims, 6 Drawing Sheets**

- (51) **Int. Cl.**  
**A61N 1/36** (2006.01)  
**B23K 1/00** (2006.01)  
**B23K 1/20** (2006.01)  
**B23K 31/02** (2006.01)  
**B23K 1/19** (2006.01)  
**A61N 1/375** (2006.01)  
**B23K 26/32** (2014.01)
- (52) **U.S. Cl.**  
CPC ..... **A61N 1/36032** (2013.01); **A61N 1/3752** (2013.01); **A61N 1/3754** (2013.01); **B23K 1/0008** (2013.01); **B23K 1/19** (2013.01); **B23K 1/20** (2013.01); **B23K 26/32** (2013.01); **B23K 31/02** (2013.01); **A61N 1/3758** (2013.01); **B23K 1/0016** (2013.01); **B23K 2201/36** (2013.01); **B23K 2203/08** (2013.01); **Y10T 29/49002** (2015.01)

