



(11) **EP 2 566 397 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:  
**04.11.2015 Bulletin 2015/45**

(51) Int Cl.:  
**A61B 17/00** <sup>(2006.01)</sup> **A61B 17/42** <sup>(2006.01)</sup>  
**A61M 25/10** <sup>(2013.01)</sup> **A61M 29/02** <sup>(2006.01)</sup>

(21) Application number: **11719177.5**

(86) International application number:  
**PCT/EP2011/002006**

(22) Date of filing: **20.04.2011**

(87) International publication number:  
**WO 2011/137978 (10.11.2011 Gazette 2011/45)**

(54) **BALLOON CATHETER SYSTEM FOR SEALING PUNCTURE POINTS IN BODY CAVITIES, HOLLOW ORGANS OR IN PERCUTANEOUS SYSTEMS IN MAMMALS**

BALLONKATHETERSYSTEM ZUM VERSCHLIESSEN VON PUNKTIONSPUNKTEN IN KÖRPERHOHLRÄUMEN, HOHLORGANEN ODER PERKUTANEN SYSTEMEN BEI SÄUGETIEREN  
SYSTÈME DE CATHÉTER À BALLONNET POUR FERMER DES POINTS DE PIQÛRE DANS DES CAVITÉS CORPORELLES, DES ORGANES CREUX OU DANS DES SYSTÈMES PERCUTANÉS CHEZ DES MAMMIFÈRES

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**

(72) Inventor: **TCHIRIKOV, Michael**  
**06120 Halle (Saale) (DE)**

(30) Priority: **06.05.2010 DE 102010019795**

(74) Representative: **Patentanwälte Dr. Keller, Schwerfeger**  
**Westring 17**  
**76829 Landau (DE)**

(43) Date of publication of application:  
**13.03.2013 Bulletin 2013/11**

(56) References cited:  
**US-A- 3 509 884** **US-A- 5 104 377**  
**US-A- 5 211 624** **US-A1- 2005 027 247**  
**US-A1- 2009 088 788** **US-A1- 2009 204 099**

(73) Proprietor: **Universitätsmedizin der Johannes Gutenberg-Universität Mainz**  
**55131 Mainz (DE)**

**EP 2 566 397 B1**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).