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## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 95 00 81

### Classification of the application (IPC):

**A61B 34/30, A61B 34/20, A61B 90/00, A61B 90/50, A61B 17/00, A61B 90/98, A61B**  
A61B 34/37, A61B 34/00, A61B 90/96

### Technical fields searched (IPC):

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	US 2017172549 A1 (SMABY NIELS [US] ET AL) 22 June 2017 (2017-06-22) * paragraph [0002] - paragraph [0008] * * paragraphs [0036], [0044] - [0046], [0059] - [0061] * * paragraphs [0065] - [0068], [0092] - [0096], [0107] * * figures 2a-b, 4a-h, 7 *	1-5, 8-11 12
Y A	US 2019059974 A1 (SHELTON IV FREDERICK E [US] ET AL) 28 February 2019 (2019-02-28) * paragraphs [0011], [0026], [0069], [0099]; figure 13b *	12 1-5, 8-11
X A	WO 2016201313 A1 (INTUITIVE SURGICAL OPERATIONS [US]) 15 December 2016 (2016-12-15) * paragraphs [0007] - [0008], [0024], [0029], [0031], [0036] - [0048] * * figures 4a-7 *	1, 8 2-5, 9-11
X	CN 102630154 A (ETERNE INC) 08 August 2012 (2012-08-08) * paragraph [0019] - paragraph [0045] * * paragraph [0169] - paragraph [0178]; figure 19 *	8, 10, 12
A	US 2016184033 A1 (COOPER THOMAS G [US] ET AL) 30 June 2016 (2016-06-30) * paragraph [0147] - paragraph [0156] *	1-5, 8-12
X Y	US 2012083801 A1 (NIXON TOM [US]) 05 April 2012 (2012-04-05) * paragraph [0006] - paragraph [0008] *	1, 6, 10 7, 8, 13-15
Y	US 2005149003 A1 (TIERNEY MICHAEL J [US] ET AL) 07 July 2005 (2005-07-07) * paragraph [0066] * * paragraph [0084] - paragraph [0085] *	7, 8

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 20 February 2024	Examiner Hilvert, Maria
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
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### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	EP 1897511 A2 (INTUITIVE SURGICAL INC [US]) 12 March 2008 (2008-03-12) * claim 24 *	1-15
Y	US 2016361126 A1 (SCHENA BRUCE MICHAEL [US] ET AL) 15 December 2016 (2016-12-15) * paragraphs [0056] - [0057], [0077] *	13-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 20 February 2024	Examiner Hilvert, Maria
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### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5, 8, 9, 11, 12(completely); 10(partially)

Invention 1: surgical robotic system and method to detect mating of a surgical tool with a motor by detecting performance change in a motor signal

2. claims: 6, 7, 13-15(completely); 10(partially)

Invention 2: surgical robotic system and method to detect mating of a surgical tool with a motor by determining rotation angles of the surgical tool or tool pads.

All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 20 February 2024	Examiner Hilvert, Maria
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