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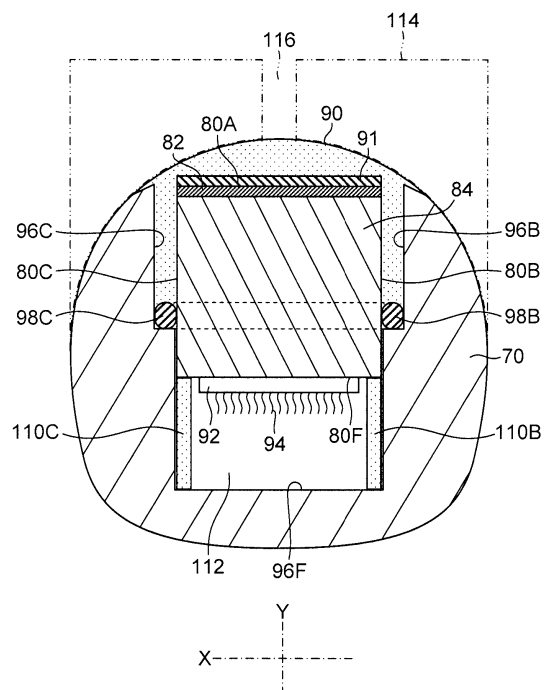
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(60) Divisional application:  
**16197688.1 / 3 167 811**

(54) **ULTRASONIC ENDOSCOPE AND METHOD OF MANUFACTURING THE SAME**

(57) The present invention provides an ultrasonic endoscope in which wiring can be reliably fixed to a wire housing space of an ultrasonic-oscillator housing part, and a method of manufacturing the ultrasonic endoscope. According to the present invention, a wire housing space 112 is encapsulated from the outside by sealing a gap formed between an ultrasonic oscillator 80 and an ultrasonic-oscillator housing part 96 with sealing members 98 and 110. With this configuration, the wire housing space 112 can be sufficiently filled with filling agent for fixing wires 94 in the wire housing space 112. This achieves an ultrasonic endoscope 10 in which the wires 94 can be reliably fixed to the wire housing space 112 of the ultrasonic-oscillator housing part 96.

FIG.9



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EUROPEAN SEARCH REPORT

Application Number  
EP 16 19 7600

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X A	WO 2015/053044 A1 (OLYMPUS MEDICAL SYSTEMS CORP [JP]) 16 April 2015 (2015-04-16) * figures 1,4,7,15,16 * -----	1,3,4, 6-10 5	INV. A61B8/12 A61B1/00 A61B1/018 A61B8/00
X A	JP H09 75345 A (FUJI PHOTO OPTICAL CO LTD; TOSHIBA CORP) 25 March 1997 (1997-03-25) * figures 3,4 * ----- US 6 149 598 A (TANAKA TOSHIZUMI [JP]) 21 November 2000 (2000-11-21) * figure 5 *	1,2  1-10	
A	US 2014/058269 A1 (IRIE KEI [JP]) 27 February 2014 (2014-02-27) * the whole document * -----	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
-The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>21 February 2017</b>	Examiner <b>Koprinarov, Ivaylo</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

EPO FORM 1503 03/02 (P04C01)



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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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:

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see sheet B

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

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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1-10

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 16 19 7600

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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:

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1. claims: 1-10

related to an endoscope comprising a wire housing space and a sealing member

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2. claims: 11-20

related to an endoscope comprising a surgical-tool guide opening and a spacer

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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 16 19 7600

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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21-02-2017

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