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(71) Applicant: **Lumed SRL**
20159 Milano (IT)

(72) Inventor: **Santamarina, Fabio**
20144 Milano (IT)

(74) Representative: **Petraz, Gilberto Luigi et al**
GLP S.r.l.
Viale Europa Unita, 171
33100 Udine (IT)

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(54) **Mouthpiece for breathing apparatuses, and apparatus and method to make said mouthpiece**

(57) Mouthpiece for breathing apparatuses comprising a tubular body (11) made of cardboard provided with an internal surface (12), and a sac-shaped filtering ele-

ment (14) attached peripherally with one open end edge (18) to the internal surface (12) of the tubular body (11) and completely contained inside it.

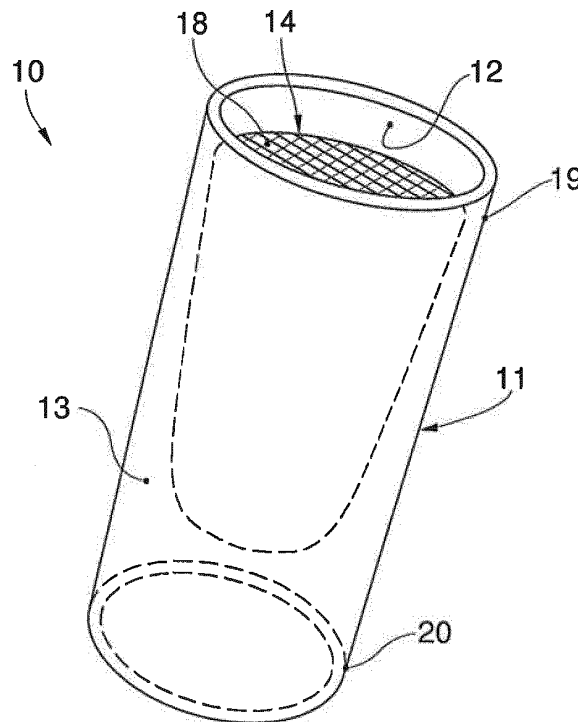


fig. 1



EUROPEAN SEARCH REPORT

 Application Number
 EP 13 19 4968

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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)
Y	US 6 010 458 A (ROBERTS KEITH A [US]) 4 January 2000 (2000-01-04) * column 5, line 22 - column 6, line 64; figures 6-16 *	1-6, 14-17	INV. A61B5/097 A61M16/04 B01D46/02
Y	DE 20 2012 007148 U1 (VITALOGRAPH LTD [GB]) 8 October 2012 (2012-10-08) * paragraph [0008] - paragraph [0011] * * paragraph [0019] - paragraph [0021]; figures *	1-6, 14-17	
Y	EP 2 098 166 A1 (BEDFONT SCIENT LTD [GB]; LASCAR ELECTRONICS [GB]) 9 September 2009 (2009-09-09) * paragraph [0010] - paragraph [0015] * * paragraph [0032] - paragraph [0033]; figures *	1-6, 14-17	
A	US 2010/041062 A1 (LANIER JR GREGORY R [US] ET AL) 18 February 2010 (2010-02-18) * paragraph [0073] - paragraph [0077] * * paragraph [0096] - paragraph [0106]; figures 7-11 *	1-6, 14-17	TECHNICAL FIELDS SEARCHED (IPC)
A	US 5 655 526 A (GIBERTONI LUCIO [IT]) 12 August 1997 (1997-08-12) * column 2, line 37 - line 63; figures *	1-6, 14-17	A61B A61M B01D
<div style="border: 1px solid black; padding: 5px;"> <p>The present search report has been drawn up for all claims</p> </div>			
Place of search		Date of completion of the search	Examiner
Munich		19 August 2014	Strubel, Christine
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			

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EPO FORM 1503 03.82 (P04C01)



Application Number

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CLAIMS INCURRING FEES

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

☐ 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):

☐ 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.

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:

see sheet B

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

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

☐ 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:

☒ 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:

1-6, 14-17

☐ 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 13 19 4968

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: 1-6, 14-17

Mouthpiece for breathing apparatuses and method of making a mouthpiece comprising a sac-shaped filtering element and a cylindrical cardboard tube

2. claims: 7-13

Apparatus to make a mouthpiece with molded filtering-element

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

EP 13 19 4968

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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19-08-2014

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	用于呼吸装置的吹口，以及制造所述吹嘴的装置和方法		
公开(公告)号	EP2745776A3	公开(公告)日	2014-10-08
申请号	EP2013194968	申请日	2013-11-28
[标]发明人	SANTAMARINA FABIO		
发明人	SANTAMARINA, FABIO		
IPC分类号	A61B5/097 A61M16/04 B01D46/02		
CPC分类号	A61B5/097 B29C53/36 B29C65/08 B29C65/18 B29C65/743 B29C65/7441 B29C65/7443 B29C66/1122 B29C66/244 B29C66/43 B29C66/532 B29C66/612 B29C66/729 B29C66/81423 B29C66/81427 B29C66/8322 B29C66/83221 B29L2031/14		
审查员(译)	STRUBEL , CHRISTINE		
优先权	102012902105823 2012-11-29 IT		
其他公开文献	EP2745776A2 EP2745776B1		
外部链接	Espacenet		

摘要(译)

用于呼吸装置的喉舌，包括由纸板制成的管状主体（11），所述管状主体（11）设置有内表面（12），以及囊状过滤元件（14），所述囊状过滤元件（14）周向地连接到内表面（12）的一个开口端边缘（18）管状体（11）的内部完全包含在其中。

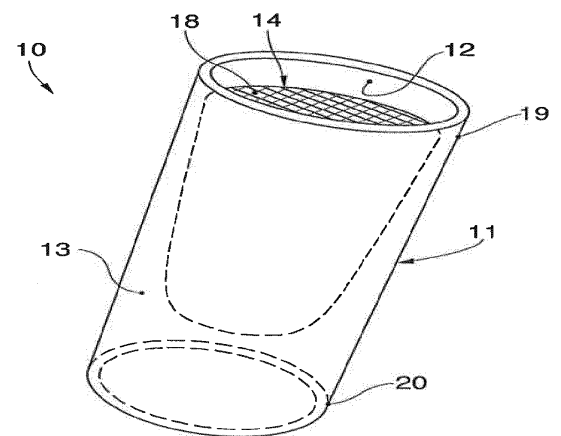


fig. 1