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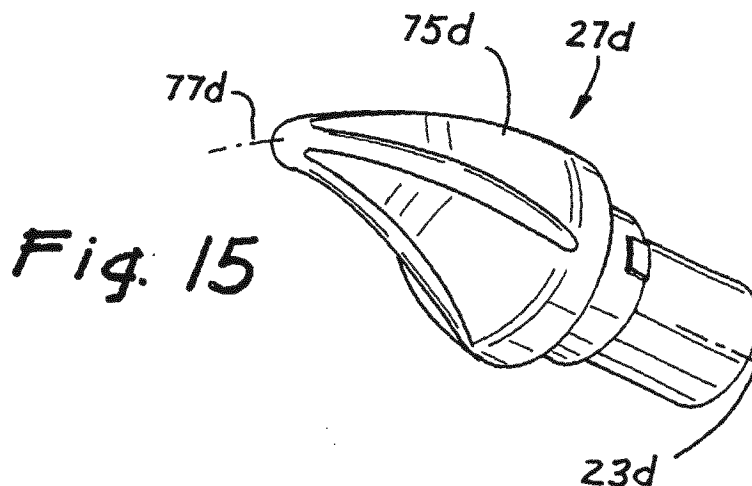
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(54) **Bladeless obturator**

(57) The invention is directed towards a bladeless obturator (18) for wedging through muscle fiber layers (41,43,45) to safely cut through to the abdominal cavity

(32) in order to apply a cannula (12). The invention comprises a bladeless obturator (18) having a tip with an axis (77d,77u) which is offset from the axis (23d,23u) of an elongate shaft (21) of the obturator.



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EUROPEAN SEARCH REPORT

Application Number
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1	Place of search Berlin	Date of completion of the search 21 February 2012	Examiner Nice, Philip
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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			

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 21 February 2012	Examiner Nice, Philip
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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ANNEX TO THE EUROPEAN SEARCH REPORT
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其他公开文献	EP2428170B1 EP2428170A2		
外部链接	Espacenet		

摘要(译)

本发明涉及一种无刀片填塞器 (18) ，用于楔入肌纤维层 (41,43,45) 以安全地切入腹腔 (32) ，以便应用套管 (12) 。本发明包括无刀片填塞器 (18) ，其具有带有轴 (77d , 77u) 的尖端，该轴 (77d , 77u) 偏离填塞器的细长轴 (21) 的轴线 (23d , 23u) 。

