

Title (en)  
MULTITUBE CATHETER AND METHOD FOR MAKING THE SAME

Title (de)  
MULTITUBULARER KATHETER UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
CATHÉTER MULTITUBES ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2785403 A1 20141008 (EN)**

Application  
**EP 12798815 A 20121130**

Priority  
• GB 201120737 A 20111202  
• GB 2012052966 W 20121130

Abstract (en)  
[origin: WO2013079961A1] Multitube catheter and method for making the same are provided. The assembly includes two (T1,T3) tube fused together to form one catheter tube shaft. Each tube has (112,113) one lumen extending longitudinally through the catheter from its distal end to its proximal end. The tubes are fused together by use of heat & pressure. Heat and pressure can be generated by heat Shrinkable tube slides over a segment of catheter tubes while metallic mandrels are passed through each tube lumen to protect the lumens during fusion. The heat Shrinkable tube will shrink once heat is applied. The heat Shrinkable tube will shrink and apply the required pressure over the catheter tubes. Continual heating will melt and re -shape the catheter tubes inside the heat Shrinkable tube while the letter will not be affected due to its high melting temperature. After cooling, the heat Shrinkable tube is to be removed, the metallic mandrels are pulled back and the tubes forming the united catheter tube. One or more of the tubes can be of different hardness, material and/or color. The difference will provide pressure resistant lumen (s), overall catheter elasticity and/or identification. Distal end of the united catheter tube can be split free floating, stepped or tapered tipped. The proximal segment (none fused) will form catheter extension legs.

IPC 8 full level  
**A61M 25/00** (2006.01)

CPC (source: EP GB)  
**A61M 25/0009** (2013.01 - EP GB); **A61M 25/0026** (2013.01 - EP GB); **B29C 65/02** (2013.01 - EP); **B29C 65/68** (2013.01 - EP); **B29C 66/1122** (2013.01 - EP); **B29C 66/5227** (2013.01 - EP); **B29C 66/63** (2013.01 - EP); **B29C 66/73152** (2013.01 - EP); **B29C 66/73322** (2013.01 - EP); **B29C 66/857** (2013.01 - EP); **B29D 23/001** (2013.01 - EP); **A61M 25/0043** (2013.01 - GB); **A61M 25/008** (2013.01 - GB); **A61M 2025/0008** (2013.01 - EP); **A61M 2025/0031** (2013.01 - EP); **A61M 2025/0034** (2013.01 - EP); **A61M 2207/00** (2013.01 - GB); **A61M 2210/12** (2013.01 - GB); **B29C 65/08** (2013.01 - EP); **B29C 66/71** (2013.01 - EP); **B29C 66/7332** (2013.01 - EP); **B29C 66/73921** (2013.01 - EP); **B29C 66/836** (2013.01 - EP); **B29L 2031/7542** (2013.01 - EP)

C-Set (source: EP)  
1. **B29C 66/71 + B29K 2021/003**  
2. **B29C 66/71 + B29K 2067/00**  
3. **B29C 66/71 + B29K 2075/00**

Citation (search report)  
See references of WO 2013079961A1

Designated contracting state (EPC)  
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

DOCDB simple family (publication)  
**WO 2013079961 A1 20130606**; EP 2785403 A1 20141008; GB 201120737 D0 20120111; GB 2497722 A 20130626

DOCDB simple family (application)  
**GB 2012052966 W 20121130**; EP 12798815 A 20121130; GB 201120737 A 20111202