

Title (en)
INTRAVASCULAR CATHETER WITH COMPOSITE REINFORCEMENT

Title (de)
INTRAVASKULARER KATHETER MIT ZUSAMMENGESETZTER VERSTÄRKUNG

Title (fr)
CATHETER INTRAVASCULAIRE A RENFORT COMPOSITE

Publication
EP 1152788 A4 20070627 (EN)

Application
EP 00906968 A 20000120

Priority

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- US 48735300 A 20000119
- US 48735900 A 20000119

Abstract (en)
[origin: WO0043061A1] This invention is an intravascular catheter (10) that exhibits the combined features of superior flexibility, softness, radiopacity, and oval/kink resistance. The proximal region (14) of the shaft (12) includes an inner lubricous polymer layer (26), a reinforcement layer (32), and an outer layer (30). The reinforcement layer (32) may comprise a braid having one or more metallic helical members (42), and a plurality of mono-filaments (41), preferably formed of LCP. The polymer members of the braid provide improved flexibility, and softness in addition to high burst pressure. The metallic members of the braid provide improved radiopacity, and oval/kink resistance. The catheter (10) may also include one or more axial members disposed between the helical members that form the braid. The axial members (34) provide a number of advantages including maintaining one-to-one correspondence in axial manipulation; maintaining uniform flexibility in several planes of flexure; reducing the likelihood of causing a curling effect; uniformly increasing stiffness of the catheter; and increasing the burst strength of the catheter.

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A61M 25/005 (2013.01); **A61M 25/0053** (2013.01)

Citation (search report)

- [XA] EP 0778037 A1 19970611 - TARGET THERAPEUTICS INC [US]
- [XA] EP 0823262 A2 19980211 - TARGET THERAPEUTICS INC [US]
- [X] EP 0839548 A1 19980506 - MEDTRONIC INC [US]
- [X] US 5057092 A 19911015 - WEBSTER JR WILTON W [US]
- [A] US 5176660 A 19930105 - TRUCKAI CSABA [US]
- See references of WO 0043061A1

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