

Title (en)
INTRA-AORTIC BALLOON CATHETERS

Title (de)
INTRA-AORTISCHER BALLONKATHETER

Title (fr)
CATHETERS A BALLONNETS INTRA-AORTIQUES

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Application
EP 95914123 A 19950320

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Abstract (en)
[origin: WO9525560A1] An intra-aortic balloon pump catheter includes an inner lumen (14) formed by a thin walled super-elastic metal alloy tube, namely of nitinol, with an inside diameter sufficient for a guide wire (28) and a small outside diameter which allows reduction of the outer lumen and related components by at least one size French while providing gas shuttle capacity between the lumens for conventional intra-aortic balloon pump operation. The outer lumen (12) is a tube formed of co-extruded plastics to enhance the size reduction and capacity goals, with an inner nylon portion (12b) for strength and relatively thin polyurethane outer portion (12a) for bio-compatibility, flexibility and compatibility for bonding to a thin polyurethane balloon (18). The proximal end sleeve of the balloon is stretched and then stress relieved by heating with an internal heater on a mounting mandrel (70) to effect a desired small diameter sizing. A radiopaque metal marker ring (94) of nitinol also is provided to improve imaging capabilities while being compatible with the lumen materials.

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