

Title (en)  
INTRAVASCULAR IMAGING APPARATUS AND METHOD

Publication  
**EP 0529069 A4 19950927 (EN)**

Application  
**EP 92910470 A 19920313**

Priority  
• US 66891991 A 19910313  
• US 84091792 A 19920221

Abstract (en)  
[origin: WO9216147A1] A device for ultrasonic imaging, and methods for the use and manufacture thereof, particularly of small coronary vessels. The device comprises an elongate member (26) with a distal end (28) that can be positioned within a small vessel of a patient's body while a proximal end (32) is located outside the body, a transducer located at a distal end of the elongate member and operable to scan the distal coronary vessels with ultrasonic pulses, and a signal processor (43) connected to a proximal end of the elongate member and to the transducer for generating and receiving pulses to and from the transducer. A motor (36) may also be connected to the proximal end of the elongate member for rotating the transducer. Control unit (38) operates the motor and the signal processor.

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**A61B 8/14**

IPC 8 full level  
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Citation (search report)  
• [DXDAD] US 4794931 A 19890103 - YOCK PAUL G [US]  
• [XA] WO 8907419 A1 19890824 - INTER THERAPY INC [US]  
• [X] US 4951677 A 19900828 - CROWLEY ROBERT J [US], et al  
• [YA] US 4375818 A 19830308 - SUWAKI TOSHITAKA [JP], et al  
• [A] WO 8904142 A1 19890518 - CIRCULATION RES LTD [GB]  
• [A] DE 3619195 A1 19870102 - OLYMPUS OPTICAL CO [JP]  
• [A] N.BOM ET AL.: "Early and recent intraluminal ultrasound devices", INTERNATIONAL JOURNAL OF CARDIAC IMAGING, vol. 4, no. 2-4, 1989, DORDRECHT (NL), pages 79 - 88  
• See references of WO 9216147A1

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