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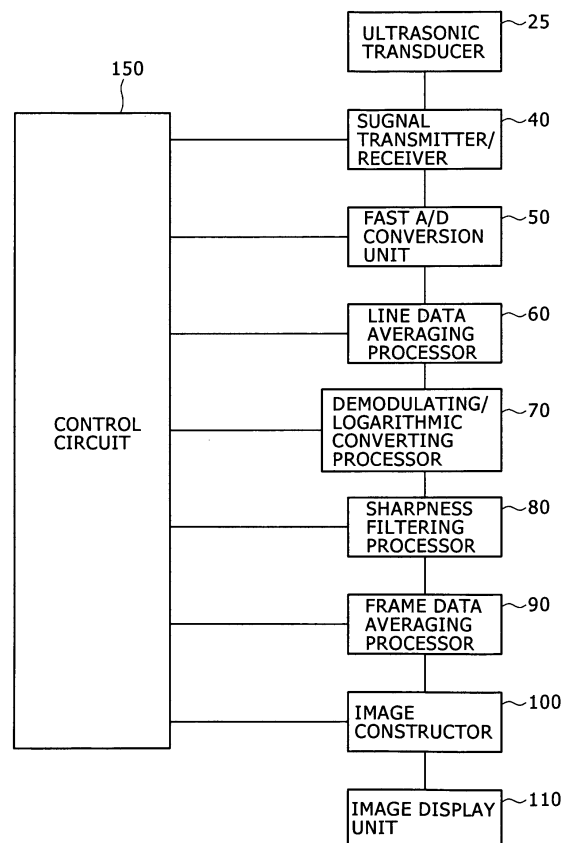
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(54) Ultrasonic diagnostic apparatus

(57) An ultrasonic diagnostic apparatus includes an ultrasonic transducer housed in a catheter for sending an ultrasonic wave to a blood vessel and receiving a reflected signal from the blood vessel, an A/D converter for converting the received reflected signal into a digital signal, a data averaging processor for storing lines or frames of digital data represented by the digital signal and adding the stored lines or frames of the digital data to average the reflected signal, a demodulating/logarithmic converting processor for demodulating the averaged reflected signal, an image constructor for constructing an image in a radial scan B mode from the demodulated signal, and a display unit for displaying the constructed image in the radial scan B mode. The ultrasonic diagnostic apparatus plots a cross-sectional vascular image with a reduced ultrasonic echo reflected from blood cells, the image clearly displaying the boundary between the blood vessel wall and the blood vessel lumen.

FIG. 3



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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 11 October 2006	Examiner Bernas, Yves
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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外部链接	Espacenet		

摘要(译)

超声诊断设备包括：超声换能器，容纳在导管中，用于将超声波发送到血管并接收来自血管的反射信号；A / D转换器，用于将接收的反射信号转换成数字信号，数据平均用于存储由数字信号表示的数字数据的行或帧并将所存储的数字数据的行或帧相加以平均反射信号的处理器，用于解调平均反射信号的解调/对数转换处理器，用于构建数字数据的图像构造器来自解调信号的径向扫描B模式的图像和用于以径向扫描B模式显示构建的图像的显示单元。超声诊断设备绘制具有从血细胞反射的减少的超声回波的横截面血管图像，该图像清楚地显示血管壁和血管腔之间的边界。

FIG. 3

