

Title (en)  
DEVICE FOR THE ULTRASONIC INVESTIGATION AND REPRESENTATION OF AN OBJECT

Publication  
**EP 0000067 B1 19810225 (DE)**

Application  
**EP 78100125 A 19780612**

Priority  
US 80600477 A 19770613

Abstract (en)  
[origin: EP0000067A1] 1. Method for the ultrasonic investigation and representation of an object on an image display device (11), in which by means of an ultrasonic transmitter/receiver system (80, 130) and a displaceable scanning mirror (70) the object is scanned in a pulsed manner in a section plane by an ultrasonic beam, the ultrasonic pulses corresponding to a section plane, which form approximately equidistant rays in the object, being triggered at a timing different from the line scan timing of the image display device (11), characterised in that the echo signals received per section plane are read line-wise into a storage system (200), and read out from the storage system (200) with a line frequency suited to the line scan frequency of the image display device (11) and are used for brightness control of the image points of the image display device (11).

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**A61B 10/00**; **G10K 11/00**

IPC 8 full level  
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CPC (source: EP)  
**A61B 8/08** (2013.01); **G10K 11/20** (2013.01)

Citation (examination)  
• DE 2628261 A1 19770331 - TOKYO SHIBAURA ELECTRIC CO  
• DE 2619684 A1 19761118 - HOFFMANN LA ROCHE  
• US 4010466 A 19770301 - HOFSTEIN STEVEN R  
• US 3947826 A 19760330 - BOCKWOLDT WALTER H  
• DE 1860245 U 19621018 - SIEMENS REINIGER WERKE AG [DE]  
• US 3955561 A 19760511 - EGGLETON REGINALD C  
• DE 2448595 A1 19750430 - TOKYO SHIBAURA ELECTRIC CO  
• DE 2601559 A1 19760722 - GREATER GLASGOW HEALTH BOARD G  
• US 3856985 A 19741224 - YOKOI H, et al

Cited by  
US4317370A; US2015075928A1; EP1462799A4; US4442842A; FR2477717A1; EP0019793A3; FR2447040A1; US7421900B2

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