US009411295B2

(12) **United States Patent**
Aoki

(10) **Patent No.: US 9,411,295 B2**
(45) **Date of Patent: Aug. 9, 2016**

(54) **RECORDING MEDIUM DETERMINATION APPARATUS AND IMAGE FORMING APPARATUS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 89 days.

(21) Appl. No.: **14/135,231**

(22) Filed: **Dec. 19, 2013**

(65) **Prior Publication Data**

US 2014/0105625 A1 Apr. 17, 2014

Related U.S. Application Data

(62) Division of application No. 12/967,309, filed on Dec. 14, 2010, now Pat. No. 8,635,912.

(30) **Foreign Application Priority Data**

Dec. 16, 2009 (JP) 2009-285756
Oct. 20, 2010 (JP) 2010-235489

(51) **Int. Cl.**
G01N 29/07 (2006.01)
G03G 15/00 (2006.01)

(52) **U.S. Cl.**
CPC ***G03G 15/6558*** (2013.01); ***G01N 29/07*** (2013.01); ***G03G 15/6564*** (2013.01); *G03G 2215/00637* (2013.01); *G03G 2215/00721* (2013.01)

(58) **Field of Classification Search**
CPC G03G 15/6558; G03G 15/6564; G03G 2215/00637; G03G 2215/00721; G01N 29/07
USPC 73/597, 602, 159; 399/389
See application file for complete search history.

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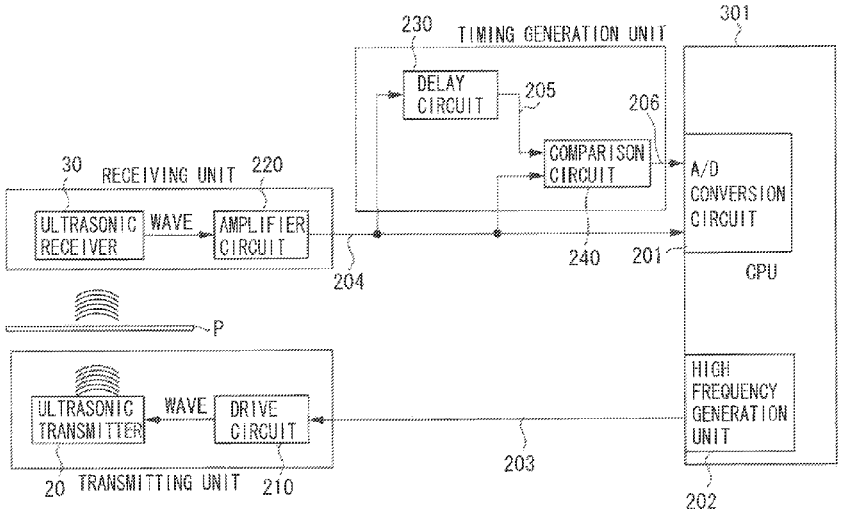
(57) **ABSTRACT**

The timing of obtaining an output value for use in a determination of a recording medium is generated from a received ultrasonic wave and a waveform generated by delaying the ultrasonic wave, whereby it is possible to reduce an influence of a reflection wave from the peripheral members and an influence of a change in the environment to improve the accuracy of determination of the recoding medium.

18 Claims, 11 Drawing Sheets