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(12) **United States Design Patent**  
**Naka et al.**

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(54) **ULTRASONIC PROBE**

FOREIGN PATENT DOCUMENTS

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CN 201430323879 \* 9/2014  
JP 1386815 5/2010  
JP 1386816 5/2010

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OTHER PUBLICATIONS

Mindray 3C1s Ultrasound Transducer Probe cable cut. Online, published date unknown. Retrieved on Jul. 16, 2018 from URL: <https://www.ebay.com/itm/MINDRAY-3C1s-Ultrasound-Transducer-Probe-cable-cut-/252354224132>.\*

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(Continued)

(\*\*) Term: **15 Years**

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(21) Appl. No.: **29/615,532**

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(51) **LOC (11) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/187**

(58) **Field of Classification Search**

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D24/164, 165, 167, 170, 186-187;  
D10/57, 60, 78, 80; D14/167, 168,  
D14/203.1-203.3, 411, 433, 500, 507;  
D4/101; D28/49, 50; D13/168, 171

CPC ..... A61B 8/445; A61B 8/4455; A61B 8/4461;  
A61B 8/4483; A61B 8/46; A61B 5/0095

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D405,705 S \* 2/1999 Norcross ..... D10/57  
D416,819 S \* 11/1999 Luebke ..... D10/78  
D420,924 S \* 2/2000 Tseng ..... D10/57

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(57) **CLAIM**

The ornamental design for an ultrasonic probe, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an ultrasonic probe showing our new design;

FIG. 2 is a front view thereof, the rear view being a mirror image of FIG. 2;

FIG. 3 is a left side view thereof;

FIG. 4 is a right side view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof;

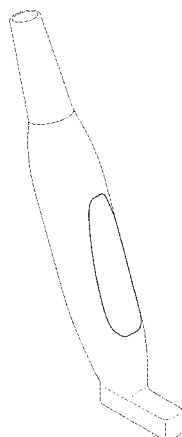
FIG. 7 is an enlarged end view of the cross-section thereof with the internal parts omitted, taken along the line 7-7 of FIG. 2;

FIG. 8 is a cross-section view thereof with the internal parts omitted, taken along the line 8-8 of FIG. 4; and,

FIG. 9 is a perspective view thereof showing the ultrasonic probe of FIG. 1 in a position of use.

The evenly dashed lines in FIGS. 1-9 depict portions of the ultrasonic probe that form no part of the claimed design. The

(Continued)



dot-dashed lines in FIG. 9 depict environmental subject matter that forms no part thereof.

**1 Claim, 7 Drawing Sheets**

(56)

**References Cited**

U.S. PATENT DOCUMENTS

D486,137 S \* 2/2004 Chen ..... D14/168  
 D493,530 S \* 7/2004 Reschke ..... D24/144  
 D514,963 S \* 2/2006 Shionoiri ..... D10/78  
 D521,641 S \* 5/2006 Reschke ..... D24/144  
 D530,233 S \* 10/2006 Janky ..... D10/78  
 D539,178 S \* 3/2007 Nakada ..... D10/57  
 D554,267 S \* 10/2007 Cohen ..... D24/187  
 D571,465 S \* 6/2008 Koros ..... D24/133  
 D630,747 S \* 1/2011 Shinohara ..... D24/137  
 D630,854 S \* 1/2011 Lozov ..... D4/101  
 D642,564 S \* 8/2011 Busri ..... D10/78  
 D701,964 S \* 4/2014 Yoneta ..... D24/187  
 D704,341 S \* 5/2014 Ryu ..... D24/187

D723,396 S \* 3/2015 Chen ..... D10/57  
 D737,701 S \* 9/2015 Payne ..... D10/78  
 D754,205 S \* 4/2016 Nguyen ..... D14/203.3  
 D758,015 S \* 5/2016 Prat-Pfister ..... D28/50  
 D758,660 S \* 6/2016 Prat-Pfister ..... D28/50  
 D760,099 S \* 6/2016 Payne ..... D10/78  
 D782,054 S \* 3/2017 Lim ..... D24/187  
 D802,777 S \* 11/2017 Burachynsky ..... D24/187  
 D818,594 S \* 5/2018 Asai ..... D24/187  
 2004/0010233 A1 \* 1/2004 Hjertman ..... A61M 5/3129  
 604/187

OTHER PUBLICATIONS

4V1C Adult Cardiac Array Ultrasound Probe / Transducer. Online, published date Apr. 27, 2014. Retrieved on Jul. 23, 2018 from URL: <https://www.absolutemed.com/4v1c-adult-cardiac-array-ultrasound-probe-transducer.htm>.  
 Ultra Solutions, "Atoka ProSound SSD-5500 Ultrasound Machine," Oct. 23, 2017, Available at: <http://www.ultrasolutions.com/aloka-prosound-ssd-5500-ultrasound-machine>.

\* cited by examiner

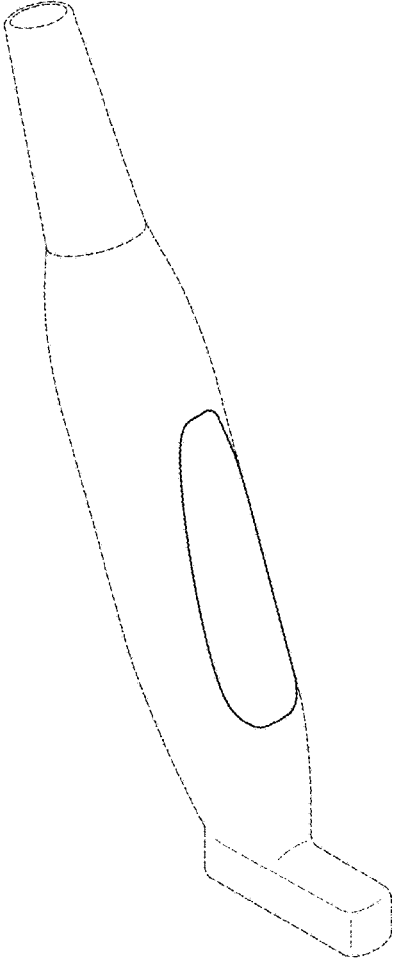


FIG. 1

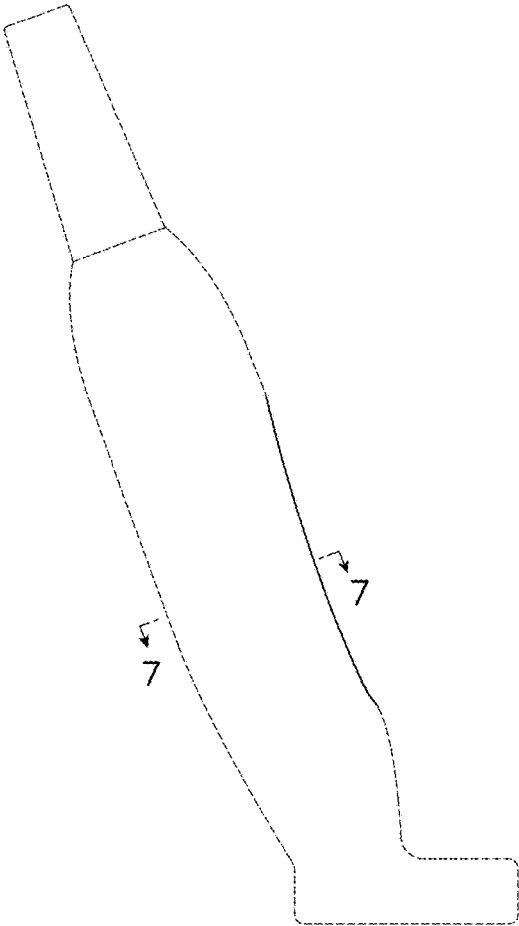


FIG. 2



FIG. 3

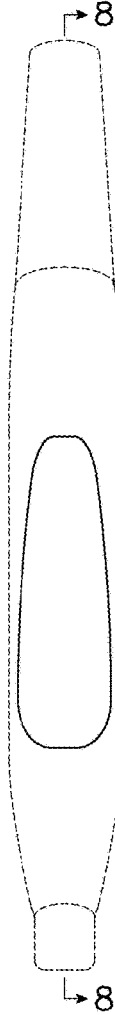


FIG. 4



FIG. 5

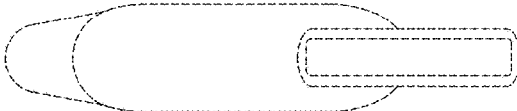


FIG. 6

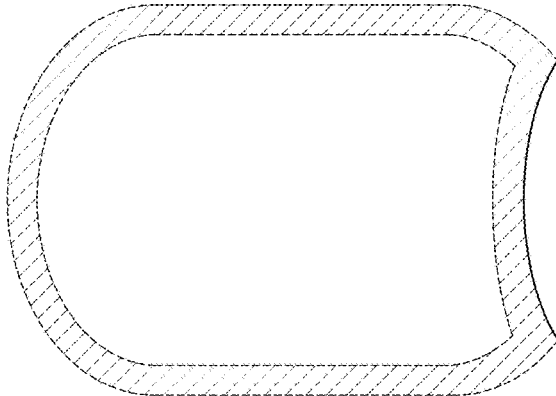


FIG. 7

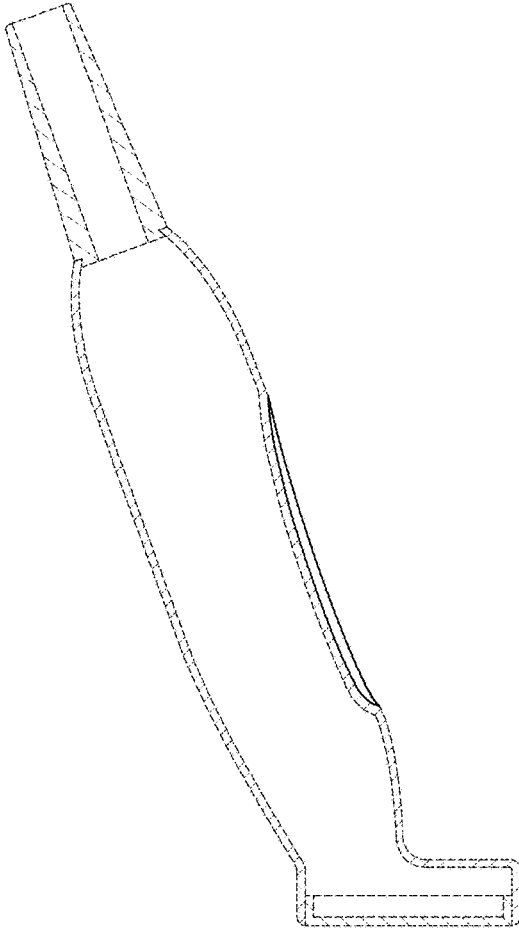


FIG. 8



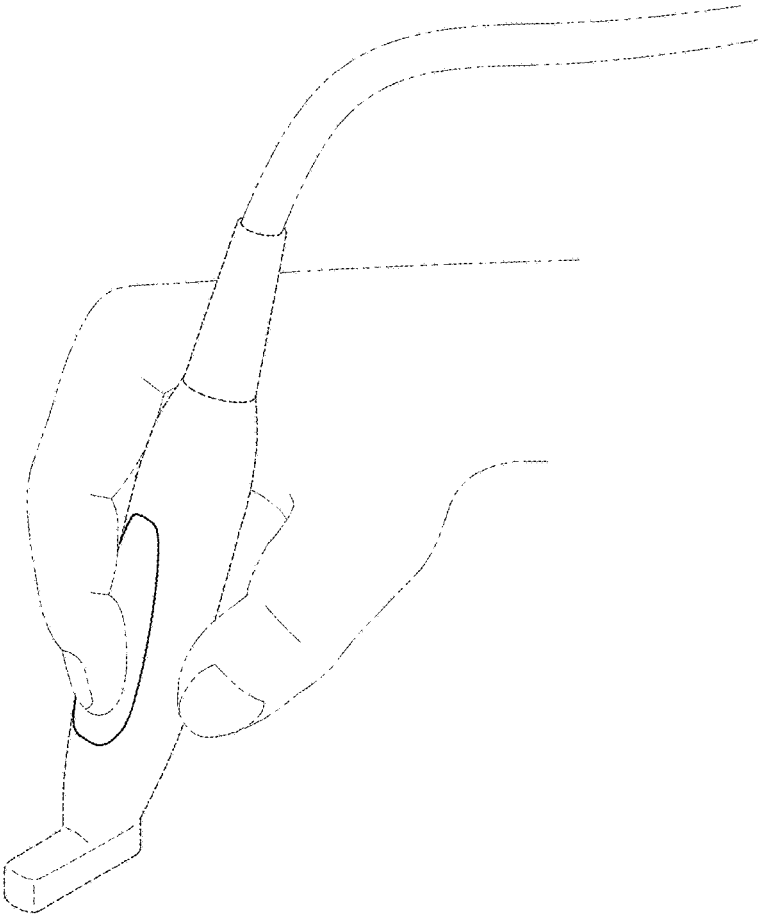


FIG. 9