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

(10) **Patent No.:** **US D837,391 S**
(45) **Date of Patent:** **** Jan. 1, 2019**

(54) **ULTRASONIC PROBE**

(56) **References Cited**

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Tokyo (JP)

U.S. PATENT DOCUMENTS

D343,801 S * 2/1994 Burns D10/78
D369,307 S * 4/1996 Imling D10/78
(Continued)

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FOREIGN PATENT DOCUMENTS

CN 304508902 2/2018
EP 004154102-0001 8/2017

(Continued)

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Tokyo (JP)

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

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(21) Appl. No.: **29/615,531**

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(22) Filed: **Aug. 30, 2017**

(57) **CLAIM**

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

(30) **Foreign Application Priority Data**

Apr. 27, 2017 (JP) 2017-009358

DESCRIPTION

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

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

(58) **Field of Classification Search**

USPC D24/186–187, 144, 200; D10/78

CPC A61B 1/00142; A61B 1/0052; A61B 17/22004; A61B 17/22012; A61B 17/2202; A61B 17/320068; A61B 17/320092; A61B 17/3403; A61B 5/02007; A61B 5/6842; A61B 8/00; A61B 8/06; A61B 8/08; A61B 8/0825; A61B 8/0833; A61B 8/0841; A61B 8/0858; A61B 8/0875; A61B 8/10; A61B 8/12; A61B 8/14; A61B 8/42; A61B 8/4209; A61B 8/4272; A61B 8/4281; A61B 8/4405; A61B 8/4411; A61B 8/4427; A61B 8/4444; A61B 8/445; A61B 8/4455; A61B 8/4461; A61B 8/4483; A61B 8/4488; A61B 8/4494; A61B 8/463; A61B 8/546

See application file for complete search history.

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

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

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;

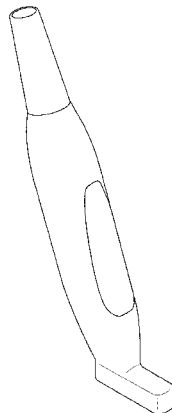
FIG. 7 is an enlarged end view of the cross-section thereof with the internal parts omitted, taken along the line 7-7 of FIG. 2;

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 reference view thereof showing a user uses the ultrasonic probe of the claimed design.

The dot-dashed lines in FIG. 9 represent the environment of the claimed design in the use state and form no part thereof. The dashed broken lines depict portions of the ultrasonic probe and form no part of the claim.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,779,639	A *	7/1998	Yeung	A61B 8/4461 600/446
D536,450	S *	2/2007	Ryan	D24/144
D550,365	S *	9/2007	Kitayama	D24/186
D623,755	S *	9/2010	Ikegame	D24/186
2015/0374331	A1 *	12/2015	Cho	A61B 8/4444 600/462

FOREIGN PATENT DOCUMENTS

EP	004154102-0002	8/2017
JP	1095570	1/2001
JP	1100193	2/2001
JP	1593696	12/2017
JP	1593697	12/2017

* cited by examiner

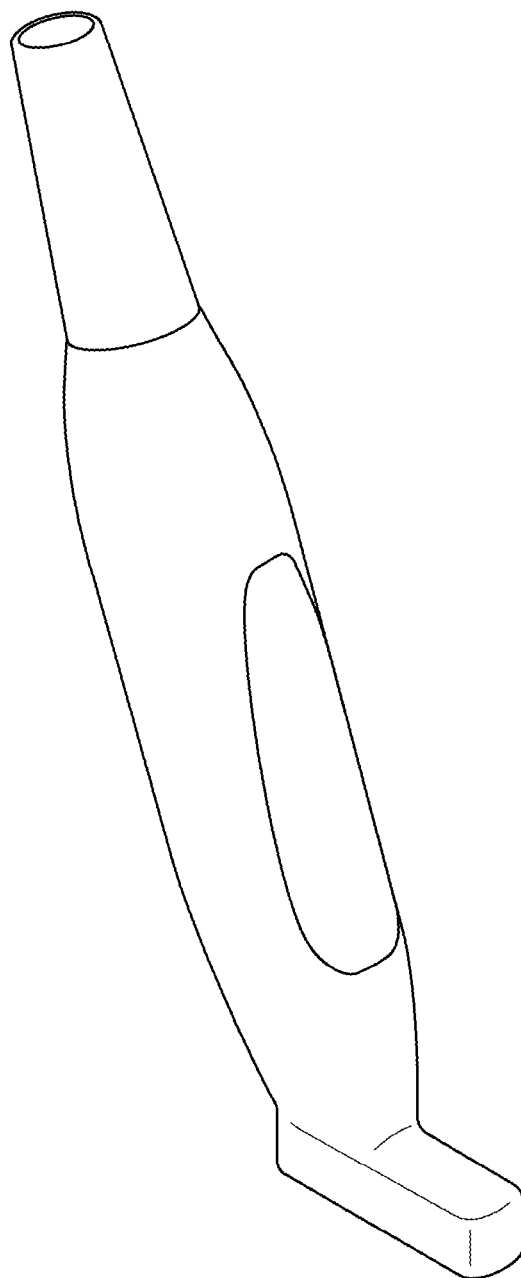


FIG. 1

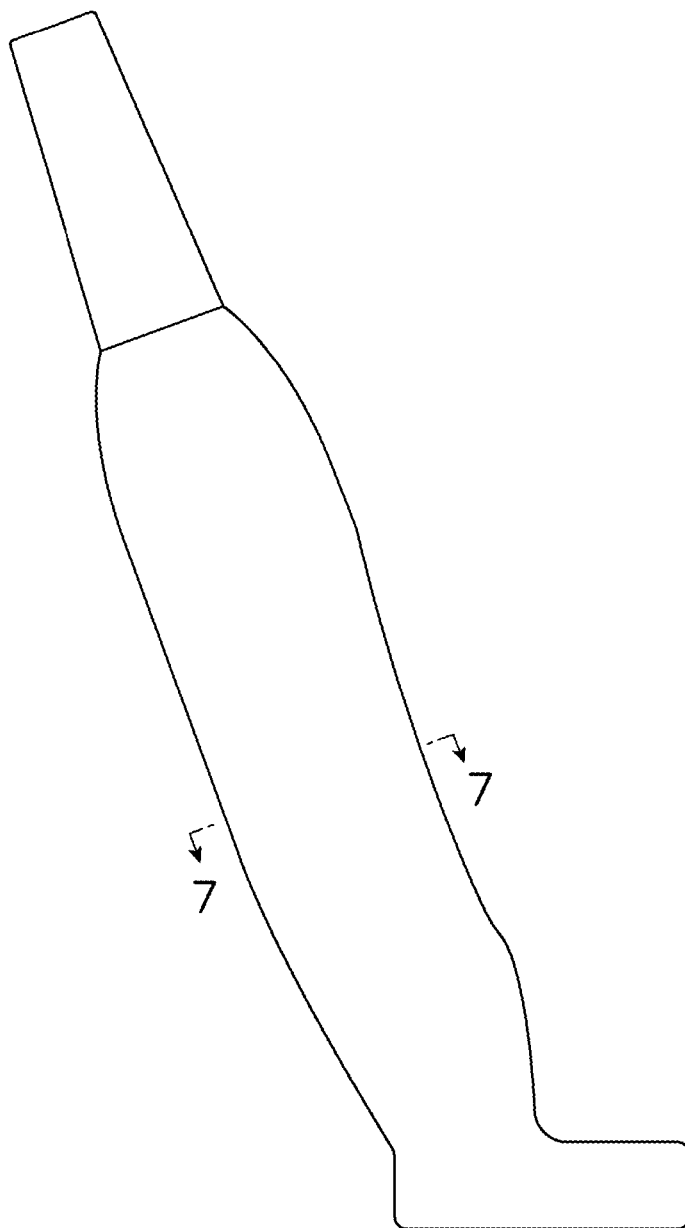


FIG. 2

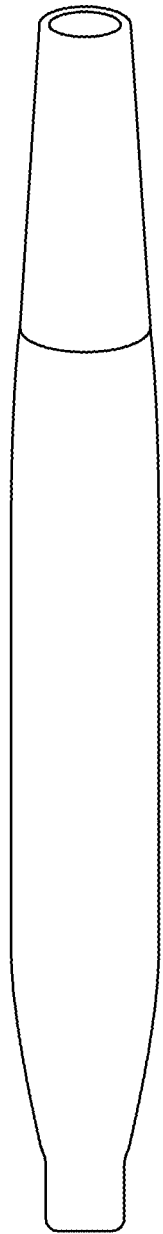


FIG. 3

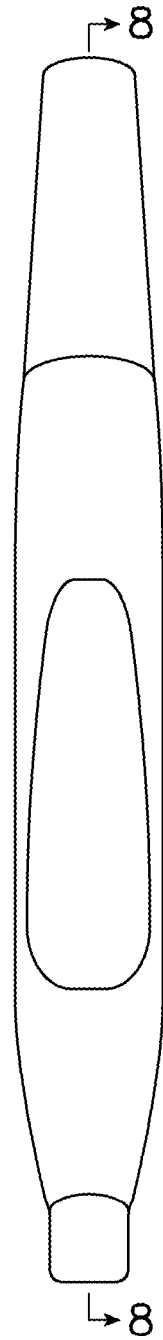


FIG. 4

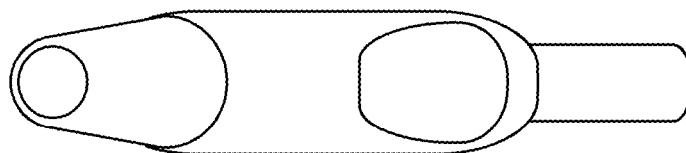


FIG. 5

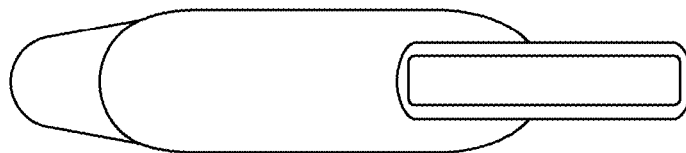


FIG. 6

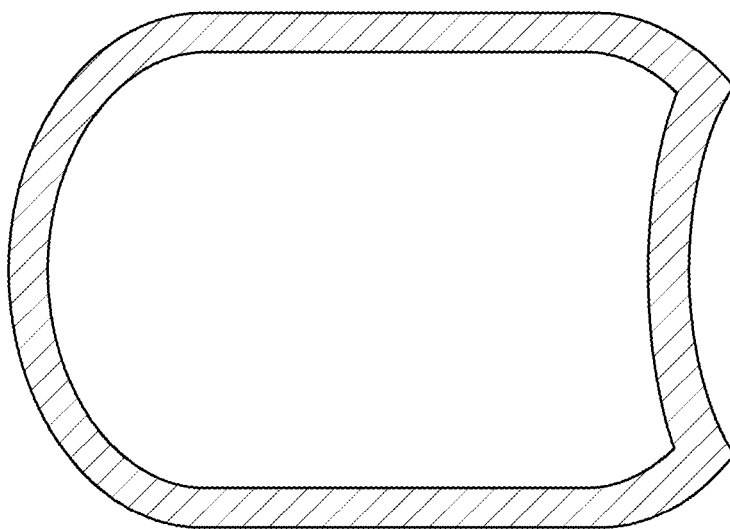


FIG. 7

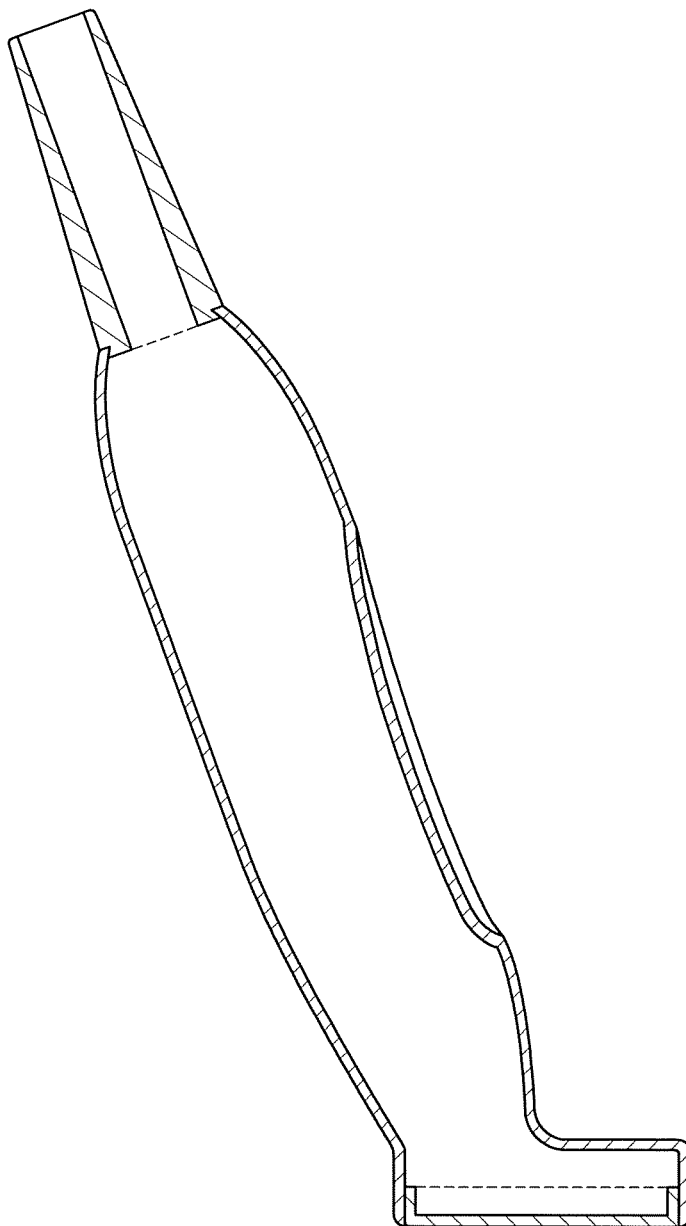


FIG. 8

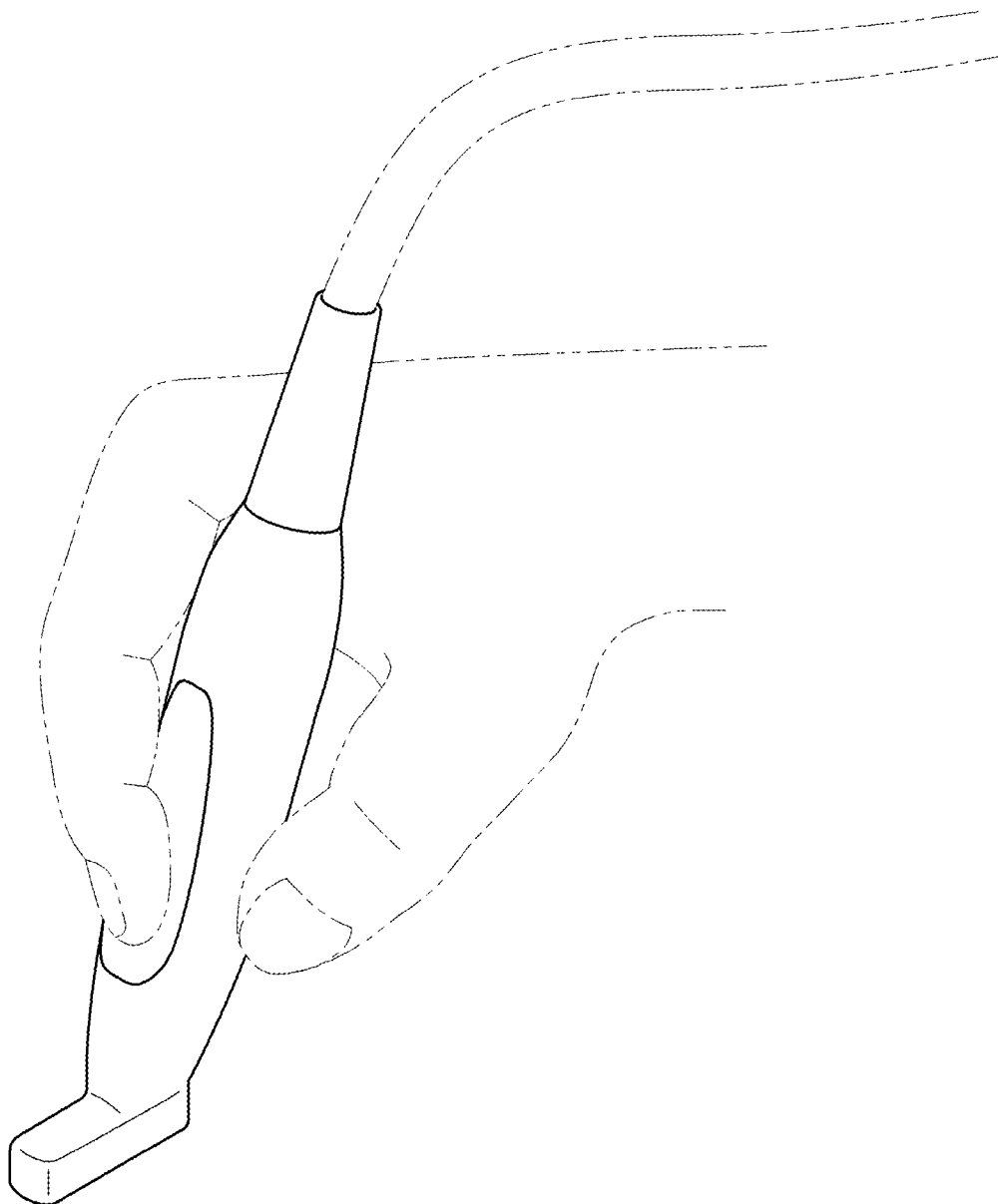


FIG. 9