



US00D828279S

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

(10) **Patent No.:** **US D828,279 S**

(45) **Date of Patent:** **\*\* Sep. 11, 2018**

(54) **ACOUSTIC REMOTE CONTROLLED INTELLIGENT UNDERWATER ROBOT**

D317,801 S \* 6/1991 Tapdrup ..... D21/599  
D323,808 S \* 2/1992 DeSantis ..... D12/300  
D359,022 S \* 6/1995 Lashman ..... D12/308  
5,634,423 A \* 6/1997 Lashman ..... A63B 35/12  
114/315

(71) Applicant: **BOYA GONGDAO (BEIJING) ROBOT TECHNOLOGY Co., Ltd.**,  
Beijing (CN)

(Continued)

(72) Inventors: **Minglei Xiong**, Beijing (CN);  
**Shanshan Jiang**, Beijing (CN); **Yang Li**, Beijing (CN)

*Primary Examiner* — Patricia Ann Palasik

(74) *Attorney, Agent, or Firm* — Andrew W. Chu; Craft Chu PLLC

(73) Assignee: **BOYA GONGDAO (Beijing) ROBOT Technology Co., Ltd.**, Beijing (CN)

(57) **CLAIM**

The ornamental design for an acoustic remote controlled intelligent underwater robot, as shown and described.

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

**DESCRIPTION**

(21) Appl. No.: **29/606,866**

(22) Filed: **Jun. 8, 2017**

(30) **Foreign Application Priority Data**

May 19, 2017 (CN) ..... 2017 3 0188627

(51) **LOC (11) Cl.** ..... **12-06**

(52) **U.S. Cl.**  
USPC ..... **D12/308; D15/199**

(58) **Field of Classification Search**  
USPC ..... D12/16.1, 308; D15/199; D21/578-583,  
D21/621, 622

CPC .... B25J 9/08; B63B 2201/02; B63B 2207/02;  
B63B 2755/00; B63G 8/04; B63G 8/08;  
B63G 8/22; B63G 8/001; B63G 8/005;  
G05D 1/0875

See application file for complete search history.

FIG. 1 is a front upper perspective view of the acoustic remote controlled intelligent underwater robot showing my design and a controller as an accessory in broken lines and internal structures in broken lines.

FIG. 2 is a front elevation view thereof, showing internal structures in broken lines;

FIG. 3 is a back elevation view thereof;

FIG. 4 is a side elevation view thereof, showing internal structures in broken lines;

FIG. 5 is an opposite side elevation view thereof, showing internal structures in broken lines;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof; and,

FIG. 8 is another perspective view thereof, showing a controller as an accessory in broken lines and internal structures in broken lines.

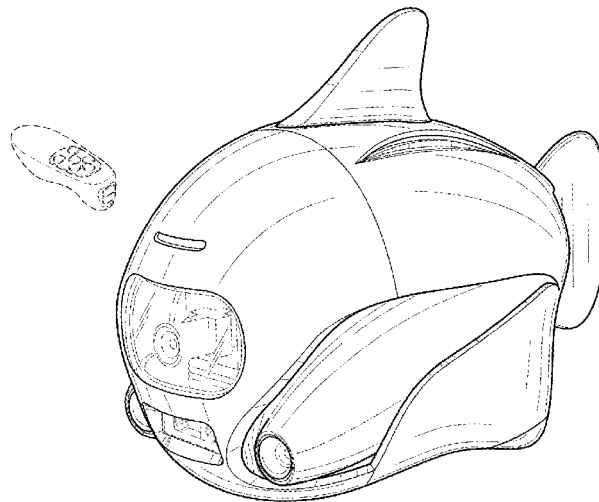
The accessory and internal structures in broken lines forms no part of the claimed design. The broken lines represent a remote controller as an accessory as environment for the context of the intelligent robot of the present application. The broken lines represent internal structures as environment for the context of the intelligent robot of the present application.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D206,942 S \* 2/1967 Speers ..... D12/308  
D242,642 S \* 12/1976 Henning ..... D12/308  
D248,687 S \* 7/1978 Bretschger ..... D21/578  
D248,688 S \* 7/1978 Vernon, Jr. .... D21/578

**1 Claim, 3 Drawing Sheets**



(56)

## References Cited

## U.S. PATENT DOCUMENTS

5,764,061 A \* 6/1998 Asakawa ..... G01V 3/02  
324/247  
D399,183 S \* 10/1998 Ciamillo, II ..... D12/308  
D409,715 S \* 5/1999 Cruz ..... D11/184  
D416,225 S 11/1999 Robinson et al.  
5,995,882 A \* 11/1999 Patterson ..... B63C 11/42  
114/312  
D428,079 S \* 7/2000 Yamazaki ..... D21/398  
D445,022 S \* 7/2001 Lin ..... D9/606  
D446,556 S \* 8/2001 Choh ..... D21/578  
D447,109 S \* 8/2001 Paoli ..... D12/308  
D447,193 S \* 8/2001 Choh ..... D21/578  
D461,445 S \* 8/2002 Nuytten ..... D12/308  
D463,356 S \* 9/2002 Rodocker ..... D12/308  
6,986,320 B2 \* 1/2006 Shelton ..... B63G 8/001  
114/312  
7,004,099 B2 \* 2/2006 Iijima ..... B63C 11/46  
114/242  
D636,032 S \* 4/2011 Oestreicher ..... D21/599  
D677,211 S 3/2013 Tavares  
8,651,041 B2 \* 2/2014 Myers ..... B63C 11/46  
114/315  
D730,418 S \* 5/2015 Tjom ..... D12/308  
D763,134 S 8/2016 Wang  
D774,941 S 12/2016 Lupashin et al.  
D781,381 S 3/2017 Caubel et al.  
D795,158 S \* 8/2017 Gan ..... D12/308  
D803,759 S \* 11/2017 Habeger ..... D12/308  
2012/0298030 A1 \* 11/2012 Lee ..... B63G 8/08  
114/337  
2016/0107317 A1 \* 4/2016 Hashimoto ..... B25J 9/042  
414/744.2

\* cited by examiner

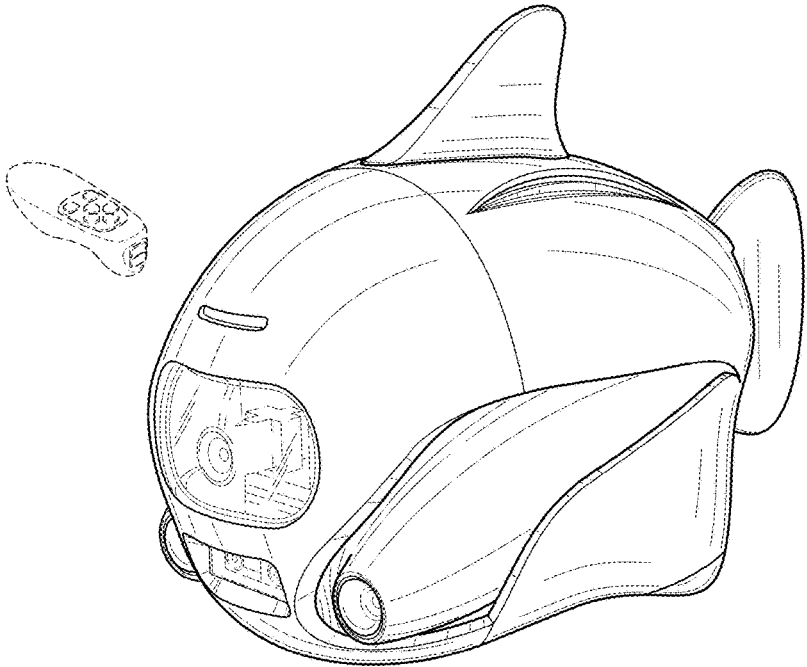


FIG. 1

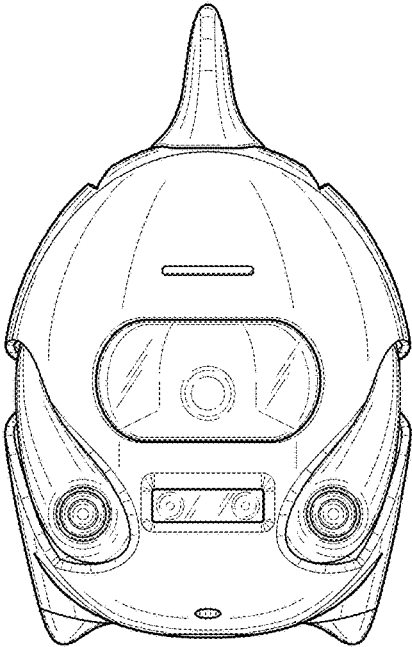


FIG. 2

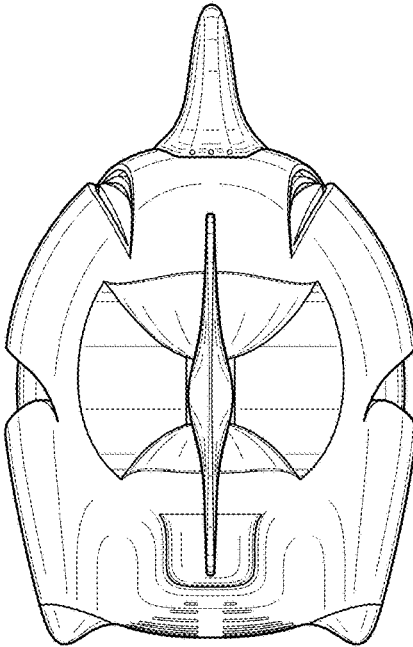


FIG. 3

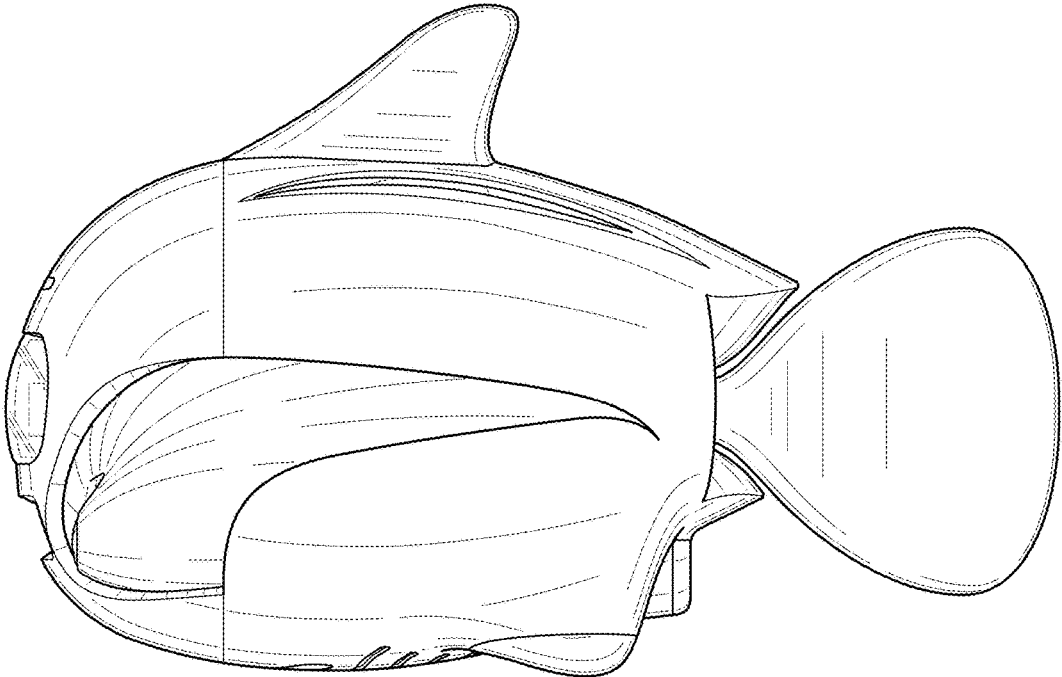


FIG. 4

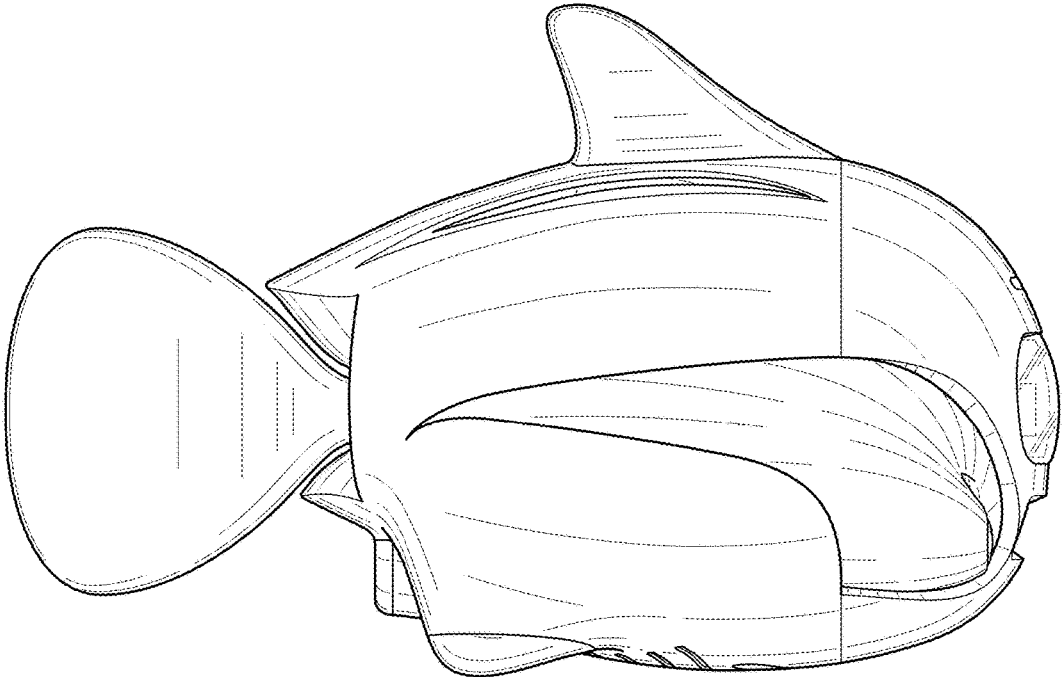


FIG. 5

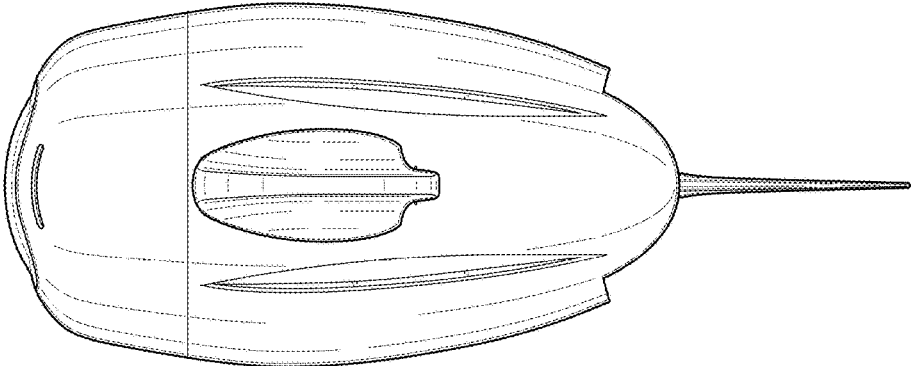


FIG. 6

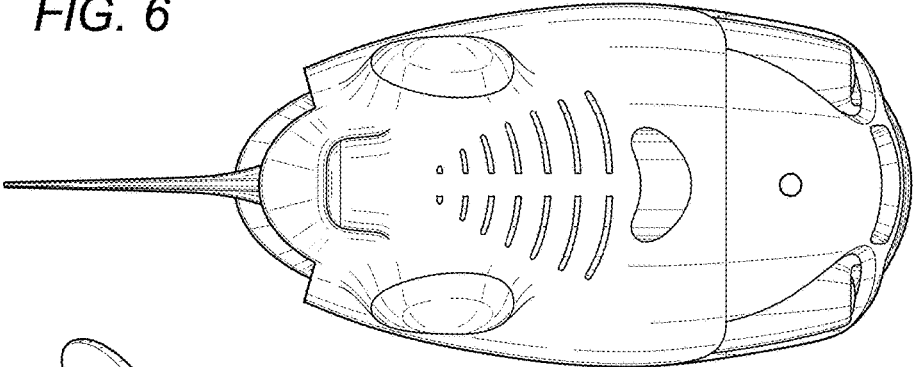


FIG. 7

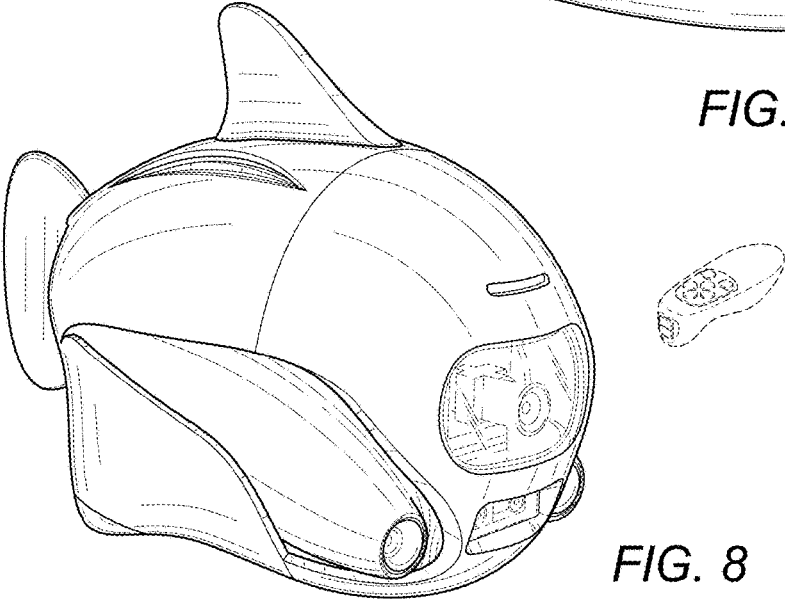


FIG. 8