



US0D1089453S

(12) **United States Design Patent** (10) **Patent No.:** **US D1,089,453 S**
Chen (45) **Date of Patent:** **** Aug. 19, 2025**

(54) **SHAPE-TRANSFORMING TOY**

(71) Applicant: **Guangdong Yangbang Science and Technology Industry Co., Ltd.,**
Shantou (CN)

(72) Inventor: **Jianwei Chen, Shantou (CN)**

(73) Assignee: **Guangdong Yangbang Science and Technology Industry Co., Ltd.,**
Shantou (CN)

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

(21) Appl. No.: **29/887,442**

(22) Filed: **Mar. 21, 2023**

(30) **Foreign Application Priority Data**

Nov. 18, 2022 (CN) 202230769934.7

(51) **LOC (15) Cl.** **21-01**

(52) **U.S. Cl.**
USPC **D21/580**

(58) **Field of Classification Search**

USPC D12/2-4, 12, 93, 110, 310, 315, 327,
D12/333, 343; D15/199; D21/468, 533,
D21/539, 542, 548-555, 557-559,
D21/579-583

CPC A63H 3/16; A63H 17/405; A63H 22/00;
A63H 33/003; B60F 3/00; B62K 11/00;
B63B 1/04; B64C 27/04; F41H 7/02

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D198,462 S * 6/1964 Constan D21/542
D277,881 S * 3/1985 Effler D21/542
D341,566 S * 11/1993 Brooks D12/310
D366,642 S * 1/1996 Brooks D12/300
D465,189 S * 11/2002 Brooks D12/315

D522,440 S * 6/2006 Brooks D12/315
D674,797 S * 1/2013 TerMeer D14/433
D966,168 S * 10/2022 Rabenko D12/315

(Continued)

FOREIGN PATENT DOCUMENTS

CN 302489976 * 7/2013
CN 303565575 * 1/2016
CN 303950785 * 11/2016

OTHER PUBLICATIONS

Chidley, Jack—"Home made toy battleship and submarine with torpedo," 1941, Powerhouse Museum of Australia; retrieved from Internet Sep. 27, 2024; <https://collection.powerhouse.com.au/object/68110> (Year: 1941).*

(Continued)

Primary Examiner — Leanne Was-Englehart

(74) *Attorney, Agent, or Firm* — Birchwood IP

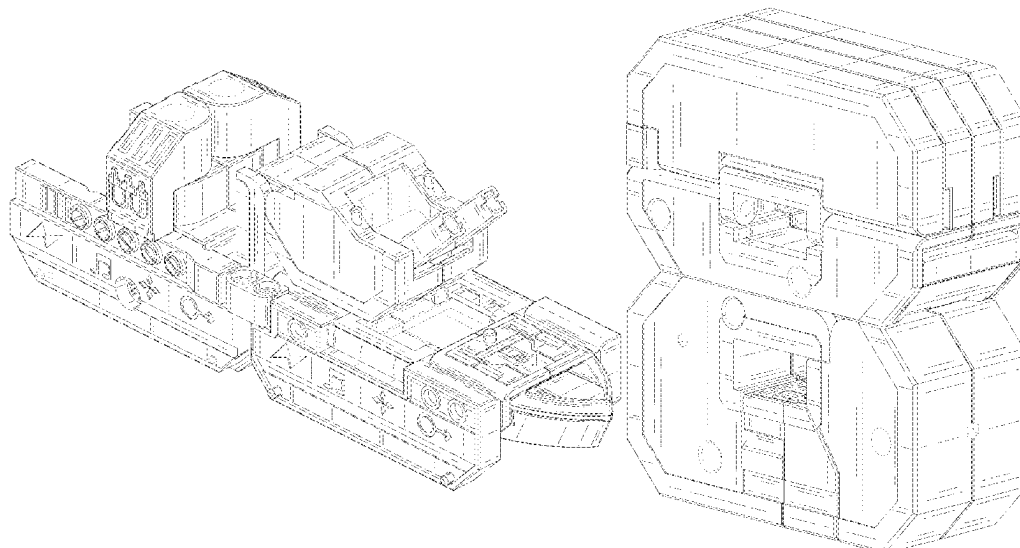
(57) **CLAIM**

The ornamental design for a shape-transforming toy, as shown and described.

DESCRIPTION

FIG. 1 is a front, left and top perspective view of a shape-transforming toy, showing my new design;
FIG. 2 is a rear, right and bottom perspective view thereof;
FIG. 3 is a perspective view in the transforming configuration thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a front view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a right side view thereof;
FIG. 8 is a top plan view thereof; and,
FIG. 9 is a bottom plan view thereof.
The broken lines shown in the drawings illustrate portions of the shape-transforming toy that form no part of the claimed design.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D966,992	S	*	10/2022	Rabenko	D12/315
11,541,967	B2	*	1/2023	McClellan	B63B 23/60
D1,024,898	S	*	4/2024	Blizniuk	D12/300
2006/0135006	A1	*	6/2006	Rzadki	B63H 23/24
						440/6

OTHER PUBLICATIONS

“Number Transforming Toys,” reviewed on Amazon Apr. 5, 2023; retrieved from Internet Sep. 27, 2024; https://www.amazon.com/VEAIS-Transformer-Transforming-Montessori-Classroom/dp/B0BVDH14V7/ref=asc_df_B0BVDH14V7/?tag=hyprod-20&linkCode=df0&hvadid=693376921901&hvpos=&hvnetw=g&hvrnd=3704984990796968650&hvpon (Year: 2023).*

“TCV-15 Transformers Cyberverse Battleship Power Bumblebee,” released by Takara toys Sep. 13, 2019; retrieved from Internet Sep. 27, 2024; <https://www.hlj.com/tcv-15-transformers-cyberverse-battleship-power-bumblebee-tkt13813> (Year: 2019).*

* cited by examiner

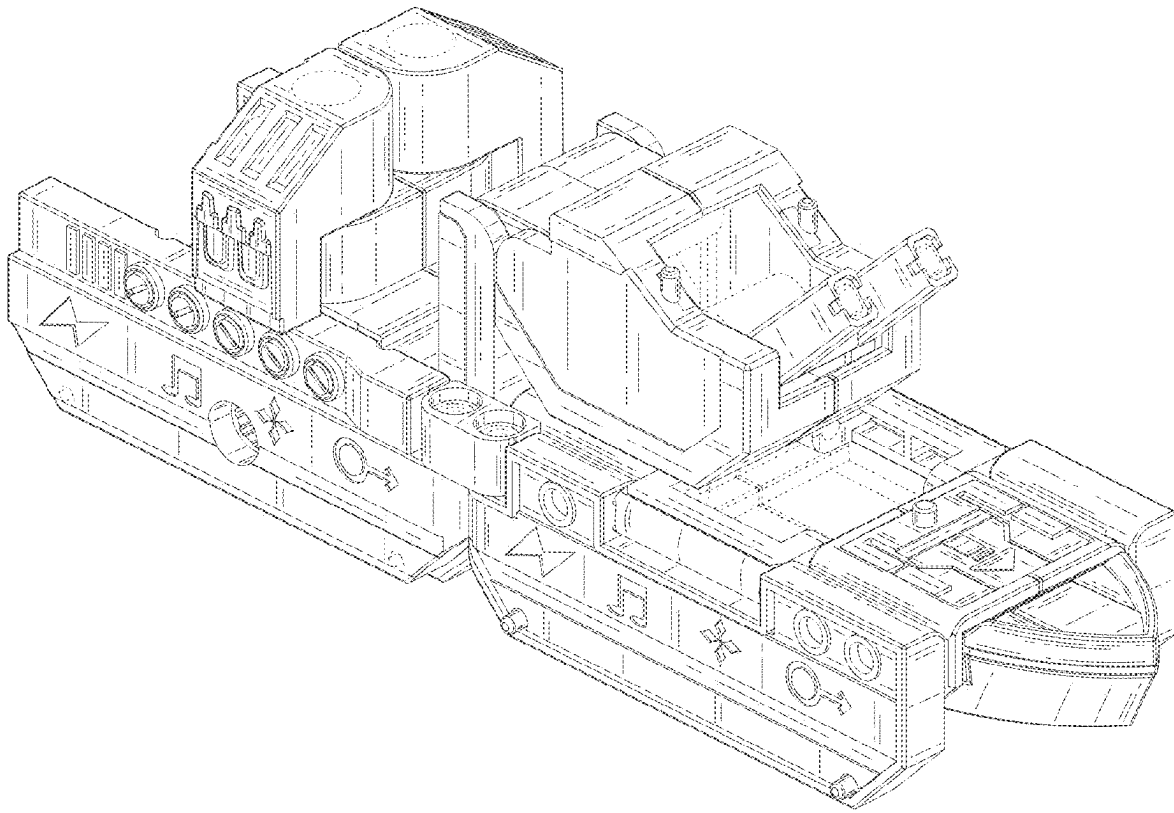


FIG. 1

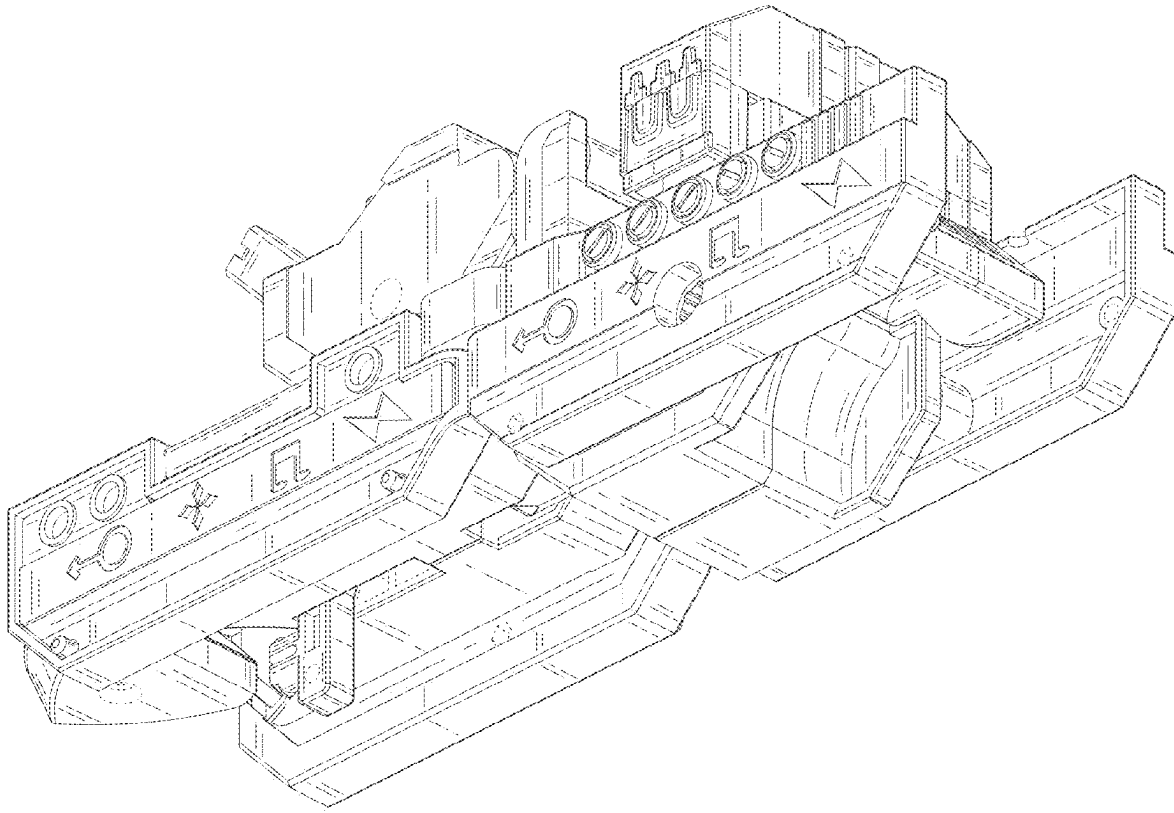


FIG. 2

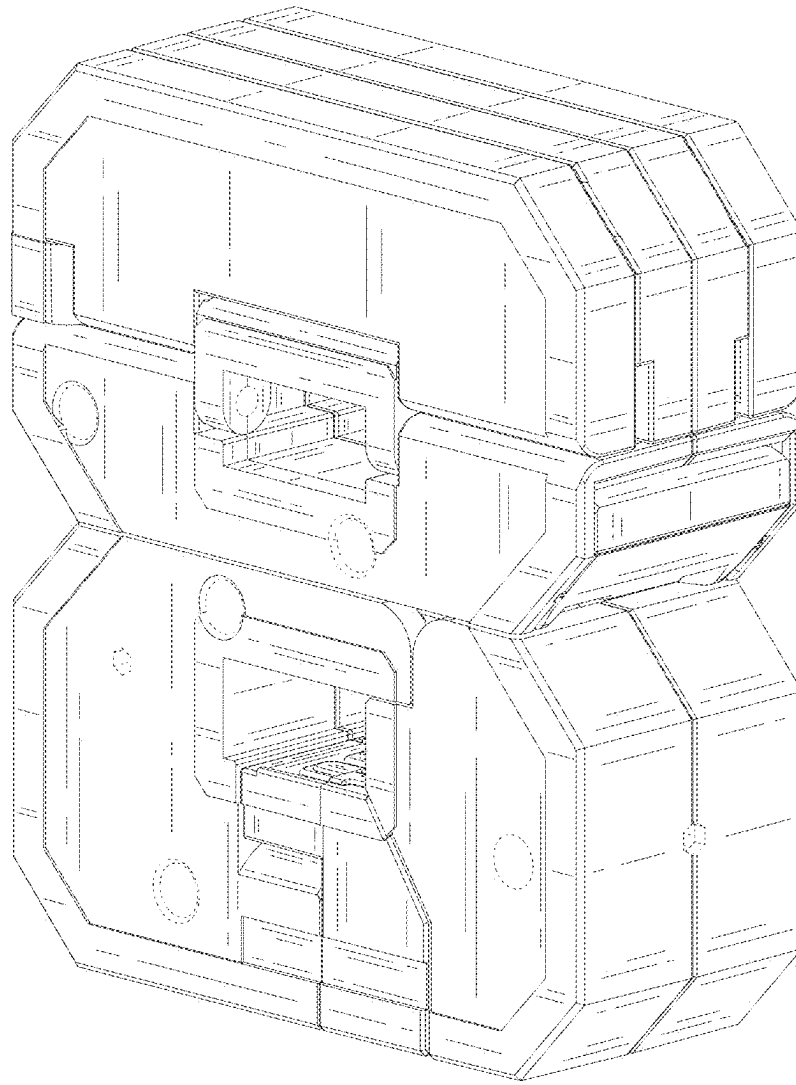


FIG. 3

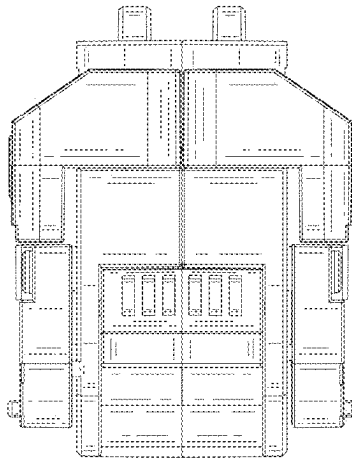


FIG. 4

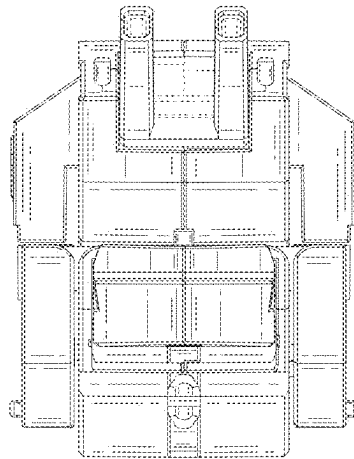


FIG. 5

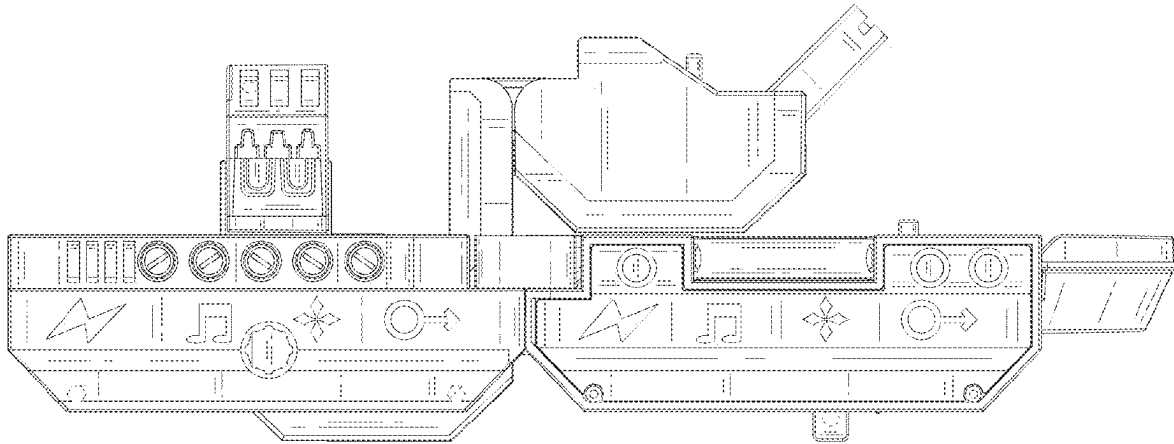


FIG. 6

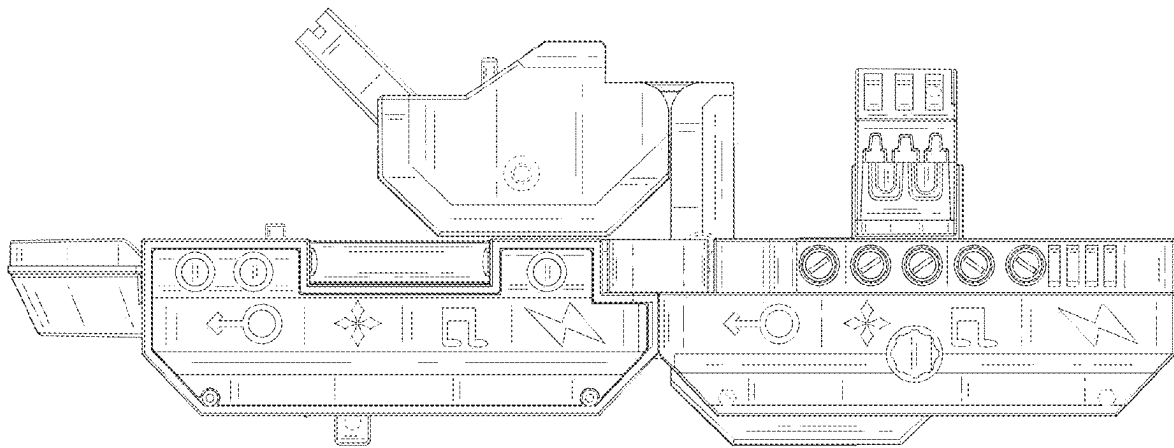


FIG. 7

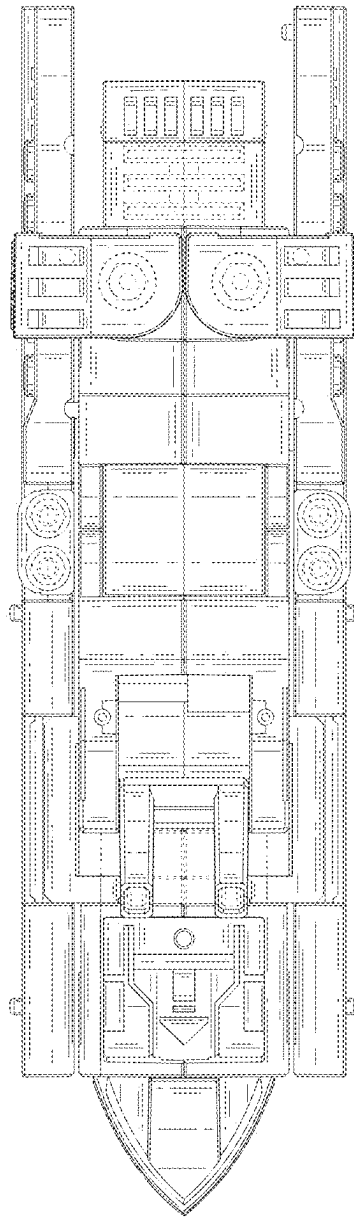


FIG. 8

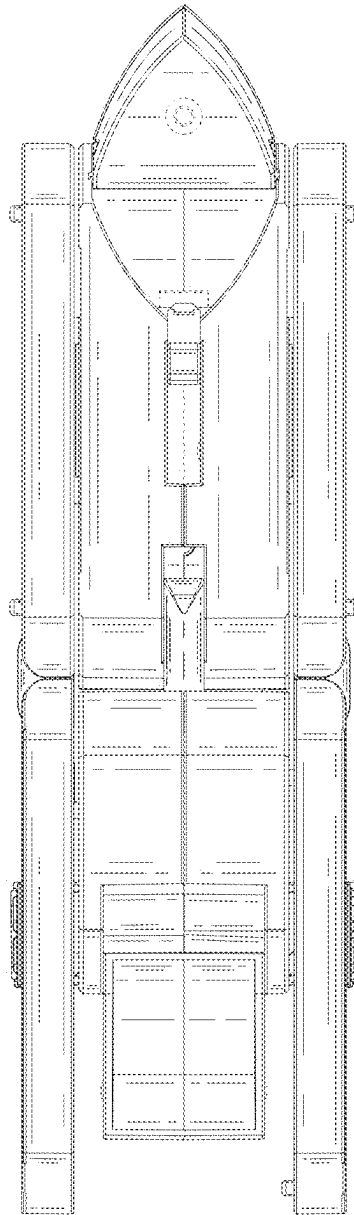


FIG. 9