United States Patent [19] Shibukawa

Des. 294,604 **Patent Number:** [11] **Date of Patent: **** Mar. 8, 1988 [45]

- **RECONFIGURABLE TOY HELICOPTER** [54]
- Inventor: Daishirou Shibukawa, Tokyo, Japan [75]

Ð.

- Takara Co., Ltd., Tokyo, Japan [73] Assignee:
- [**] 14 Years Term:
- Appl. No.: 806,226 [21]

- Nov. 22, 1985 Filed: [22]
- [30] Foreign Application Priority Data
- Oct. 14, 1985 [JP] Japan 60-42970 D21/166

Attorney, Agent, or Firm-Price, Gess & Ubell

- [57] CLAIM
- The ornamental design for a reconfigurable toy helicopter, substantially as shown and described.

DESCRIPTION

FIG. 1 is a front side perspective view of a reconfigurable toy helicopter showing my new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a right side elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a rear elevational view thereof; FIG. 6 is a top plan view thereof; FIG. 7 is a bottom plan view thereof; FIG. 8 is a front side persective view of the toy of FIG. 1, with optional parts attached; FIG. 9 is a front side perspective view of the toy reconfigured into a robotic humanoid configuration; FIG. 10 is a front elevational view thereof; FIG. 11 is a right side elevational view thereof; FIG. 12 is a left side elevational view thereof; FIG. 13 is a rear elevational view thereof; FIG. 14 is a top plan view thereof; and FIG. 15 is a bottom plan view thereof.

[58] Field of Search D21/90, 85, 87, 150, D21/166; D12/327; 446/71, 72, 80, 487, 491

[56] **References** Cited

U.S. PATENT DOCUMENTS

D. 143,504	1/1946	Pecker et al D12/327
D. 179,139	11/1956	Katzenberger D12/327
D. 287,256	12/1986	Jones et al
D. 287,518	12/1986	Ohno D21/166

Primary Examiner—Charles A. Rademaker



U.S. Patent Mar. 8, 1988

.

Sheet 1 of 10



Í.



•

•

U.S. Patent

•

Mar. 8, 1988

Sheet 2 of 10







· · ·

.

. .

· · .

. .

.

: .

.

. · · -

.

.

.

.

U.S. Patent D294,604 Mar. 8, 1988 Sheet 3 of 10

.

•

H



•

.

€.

.

•

. .

•

U.S. Patent

.

•

.

.

Mar. 8, 1988

FIG. 6

D294,604 Sheet 4 of 10



. . .

.

> .

. .

-

· · ·

.

.

. -

U.S. Patent Mar. 8, 1988 Sheet 5 of 10 D294,604 FIG. 7

.

*



+

 \sim

U.S. Patent

•

.

ł

,

Mar. 8, 1988

.

.

Sheet 6 of 10

D294,604

.

•



.

•

•

•

.

.

•

U.S. Patent Mar. 8, 1988 Sheet 7 of 10 D294,604 FIG. 9



•

.

•

· ·

.

•

-

2

•

U.S. Patent D294,604 Mar. 8, 1988 Sheet 8 of 10



· . . · · · .

. . . . •

.

. • . . .

-· . · · · . .

· · · • · .

.

À.

.

.

2

-. . .

· · .

. . . .

.

.

. . .

. . .

· · · · . .

U.S. Patent Mar. 8, 1988 Sheet 9 of 10 D294,604



5

,

•

4

· -

4

•

D294,604 U.S. Patent Mar. 8, 1988 Sheet 10 of 10 FIG.14



À

•

.

FIG.15



· ·

.

. .

. .