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**Hwan-woong et al.**

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(54) **VACUUM CLEANER**

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(\*) Notice: This patent is subject to a terminal disclaimer.

(\*\*) Term: **14 Years**

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(52) **U.S. Cl.**  
USPC ..... **D32/31**

(58) **Field of Classification Search**  
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15/383, 363, 340.4, 246.2, 384, 388, 392,  
15/49.1; 180/6.2; 318/568.12; 901/1;  
701/2

See application file for complete search history.

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(57) **CLAIM**

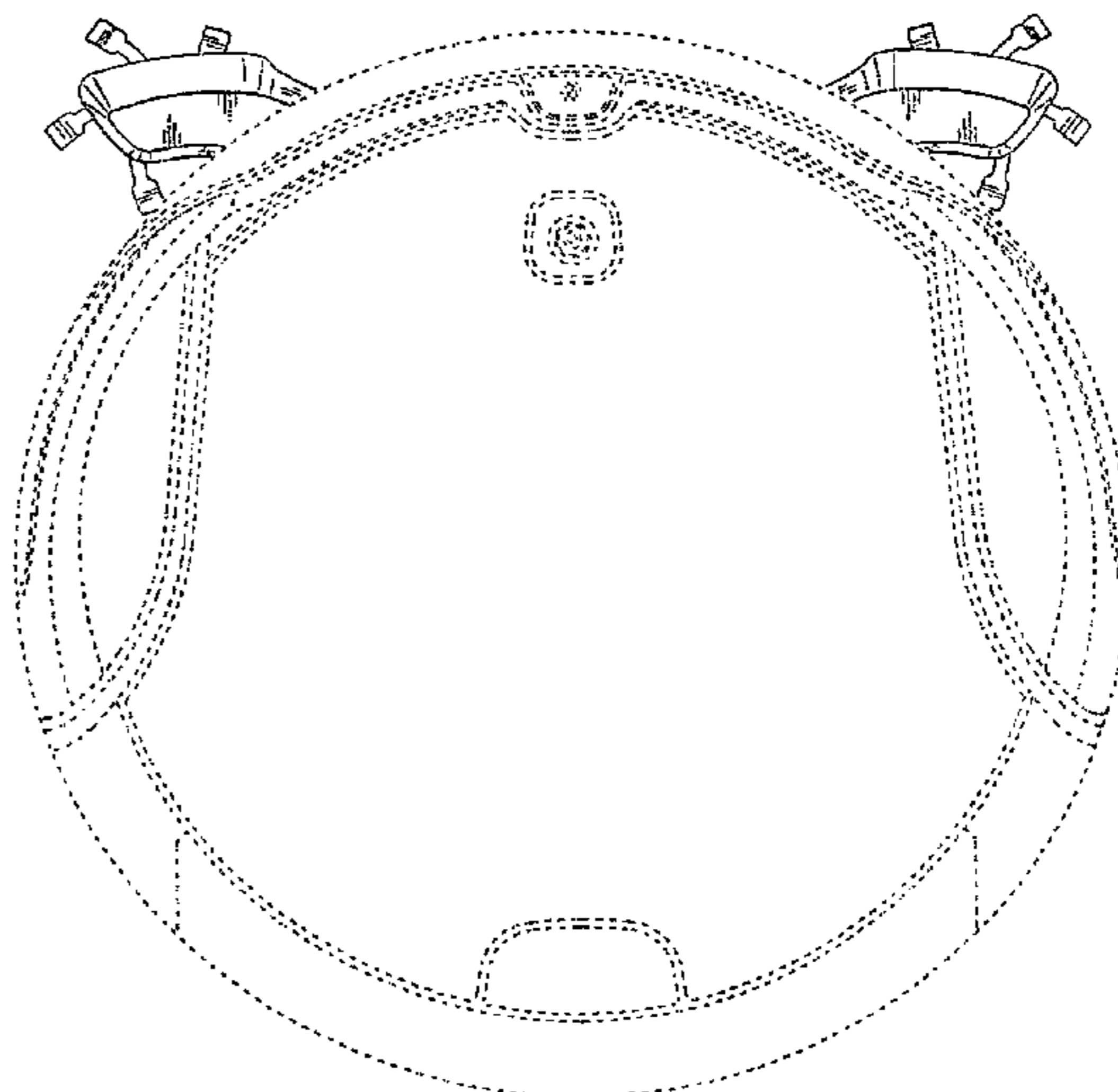
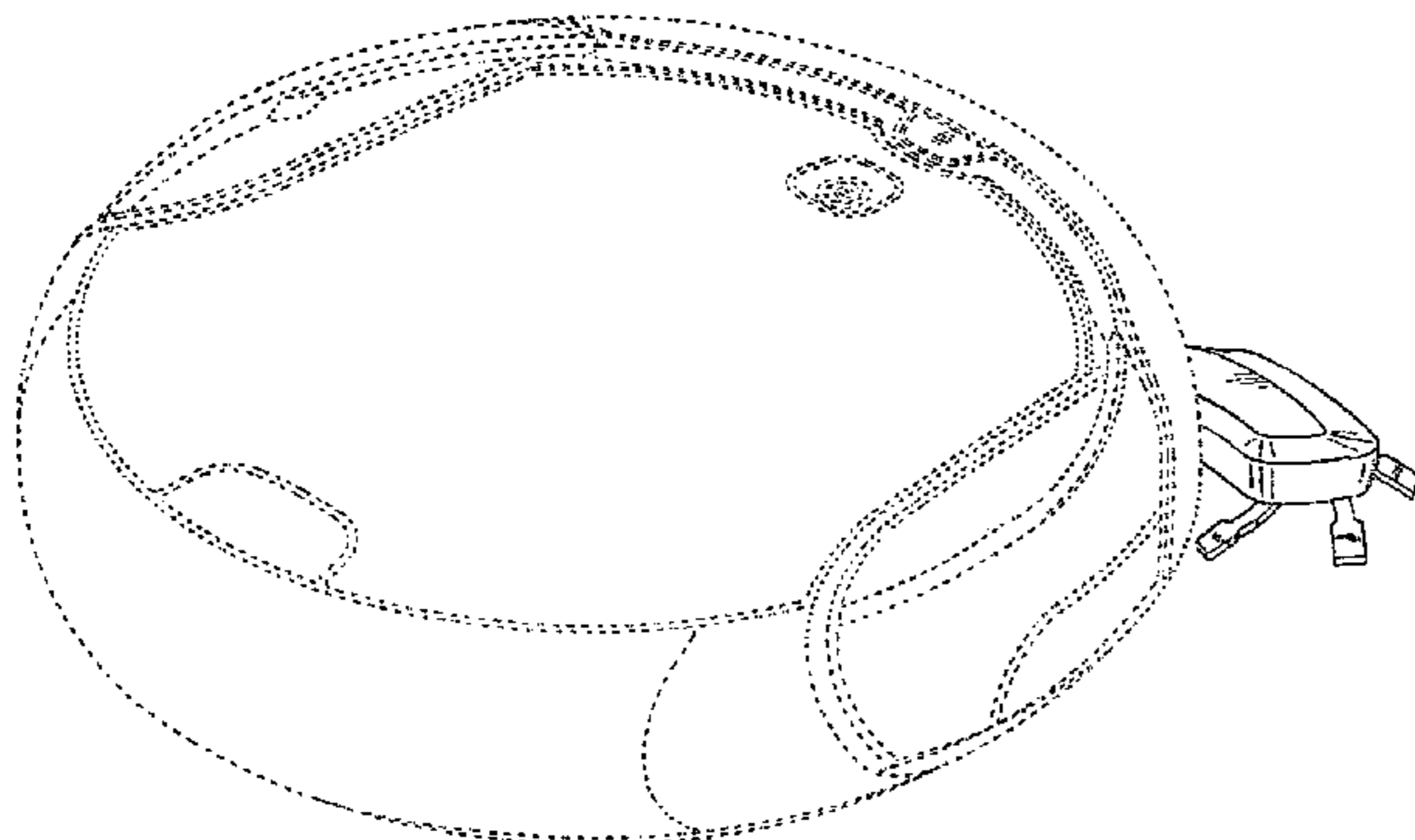
We claim the ornamental design for a vacuum cleaner, as shown and described.

**DESCRIPTION**

FIG. 1 is a front/right-side/top perspective view of a vacuum cleaner showing our new design;  
FIG. 2 is a front elevational view thereof;  
FIG. 3 is a rear elevational view thereof;  
FIG. 4 is a left-side elevational view thereof;  
FIG. 5 is a right-side elevational view thereof;  
FIG. 6 is a top plan view thereof;  
FIG. 7 is a bottom plan view thereof; and,  
FIG. 8 is a bottom plan view thereof, showing the feet in an alternate position.

The broken lines in the figures depict portions of the vacuum cleaner that form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



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Fig. 1

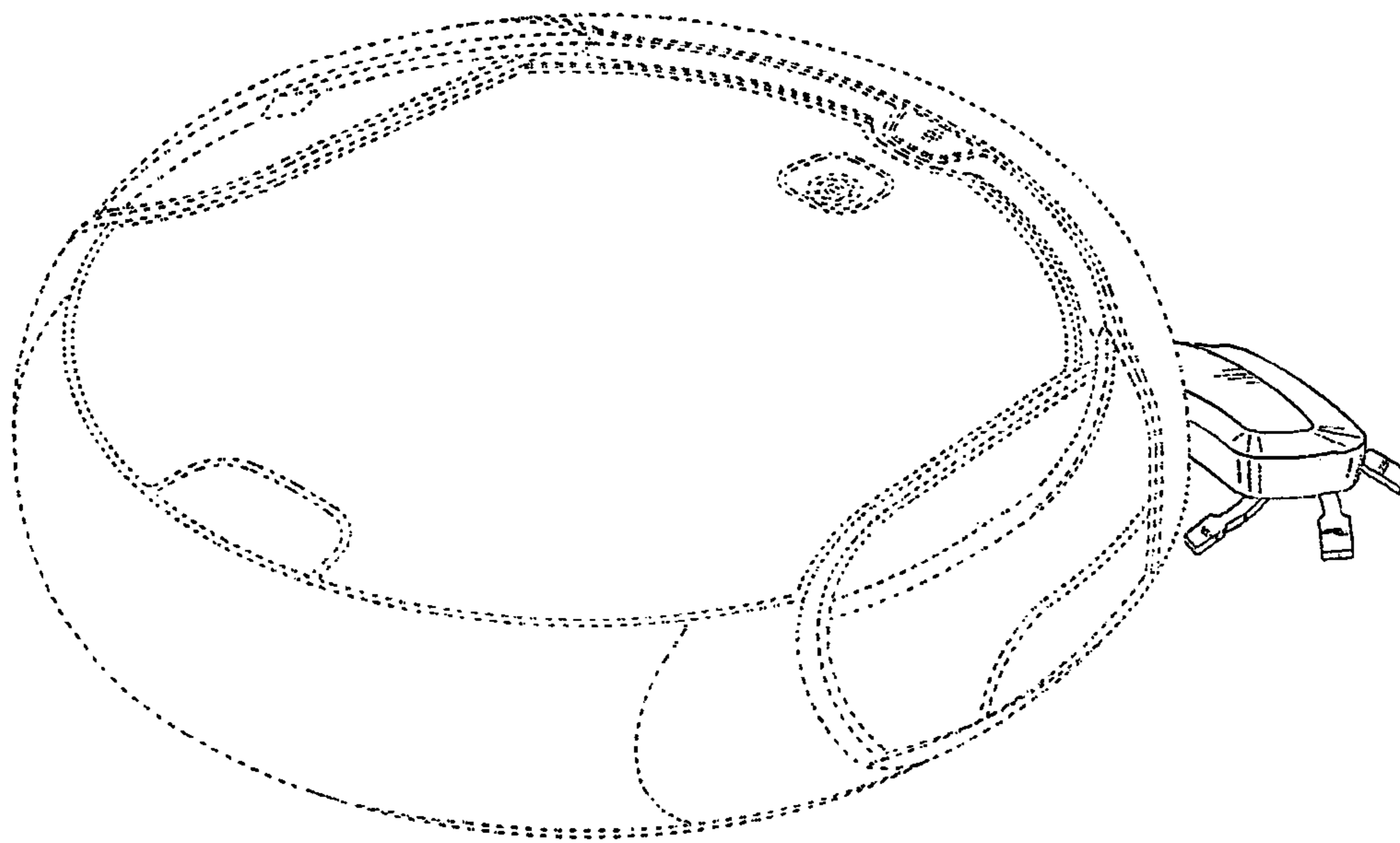


Fig. 2

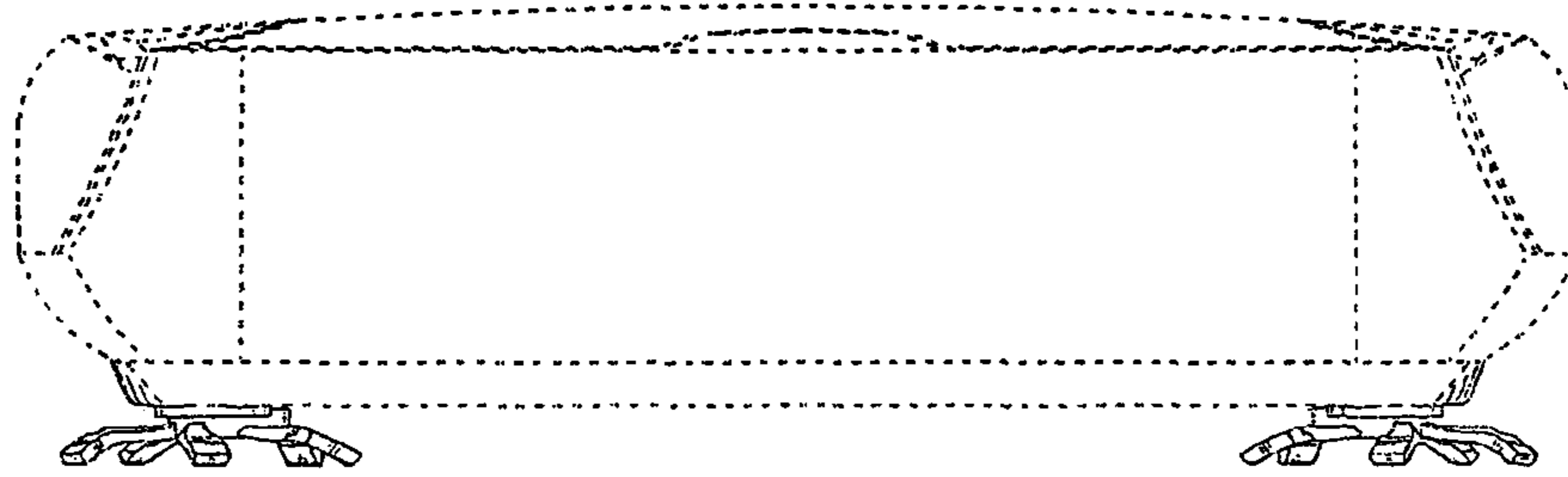


Fig. 3

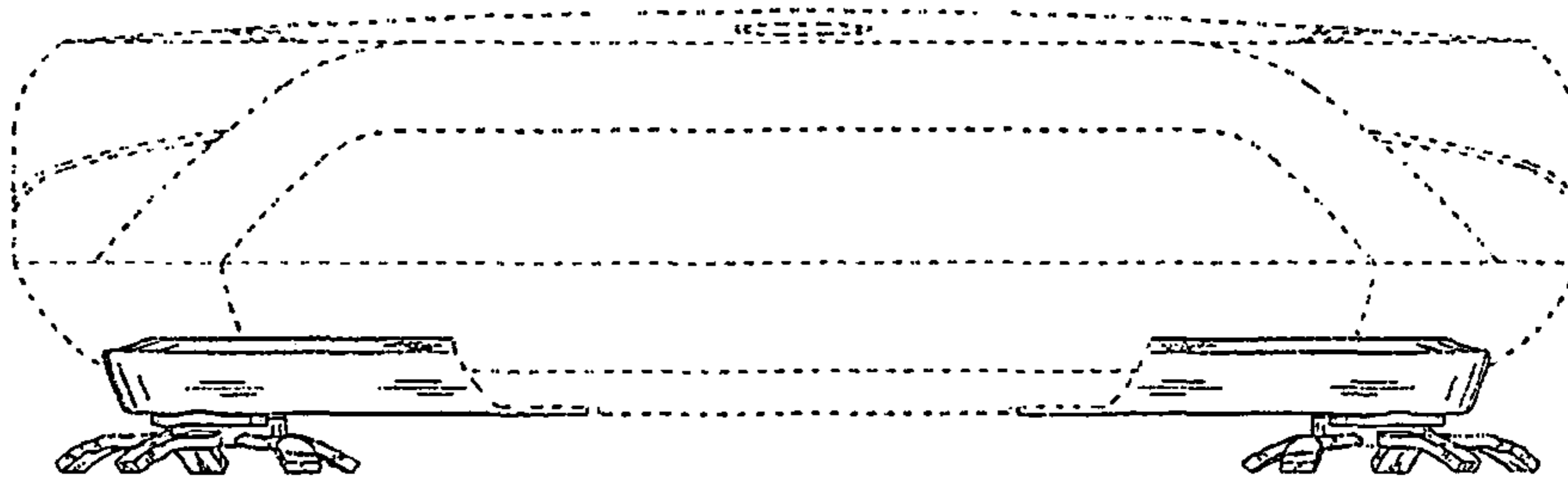


Fig. 4

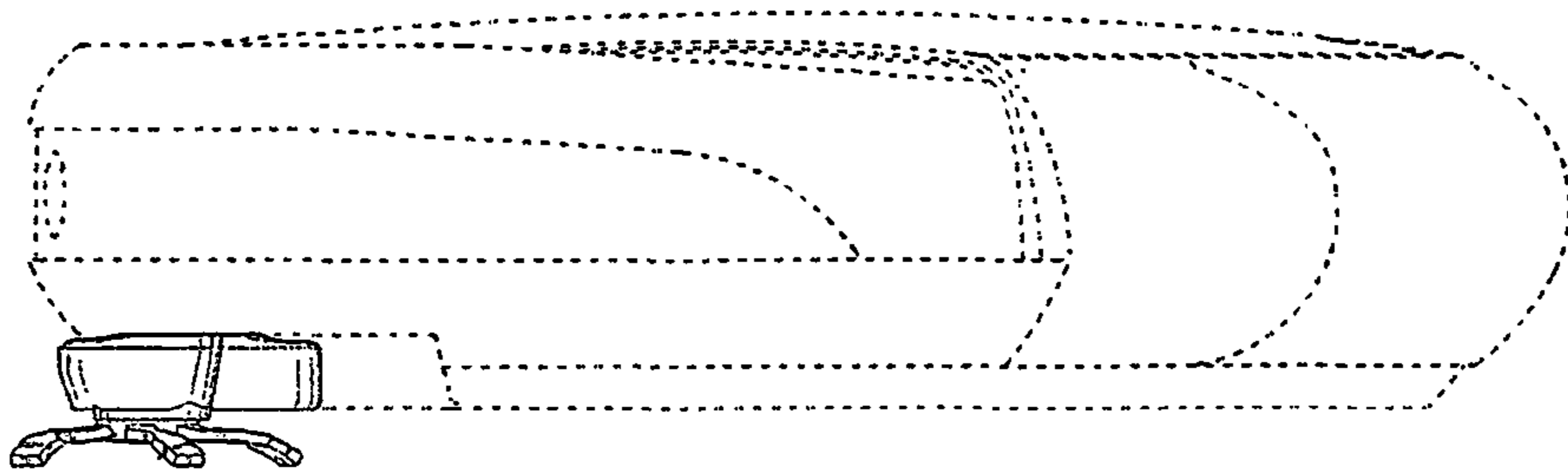


Fig. 5

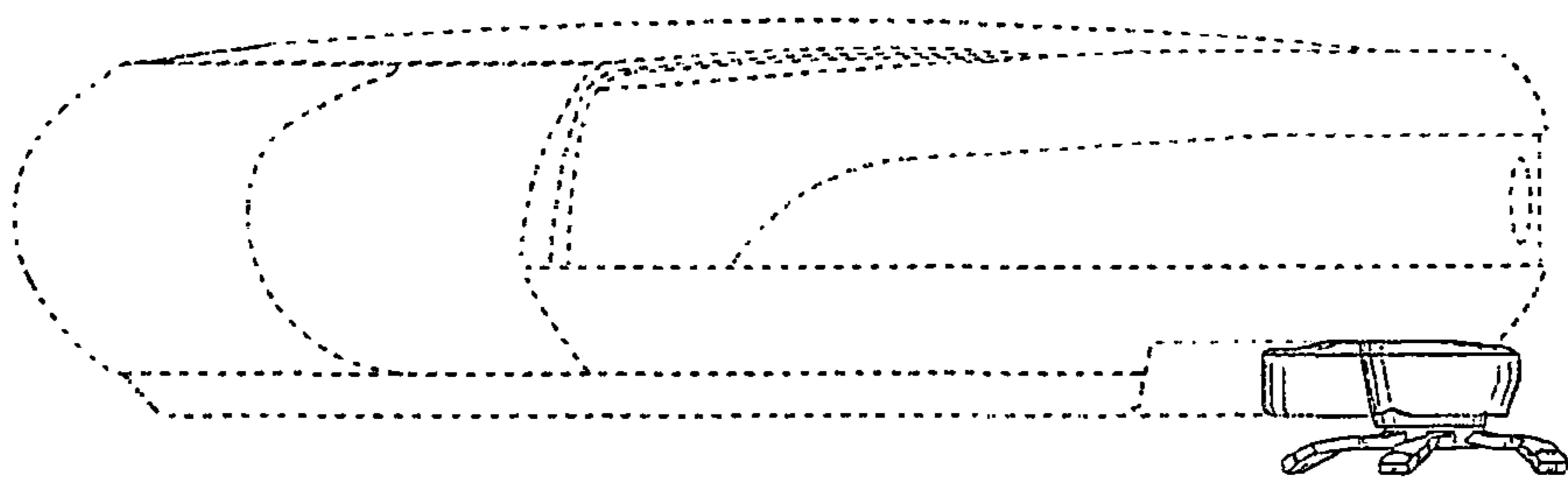


Fig. 6

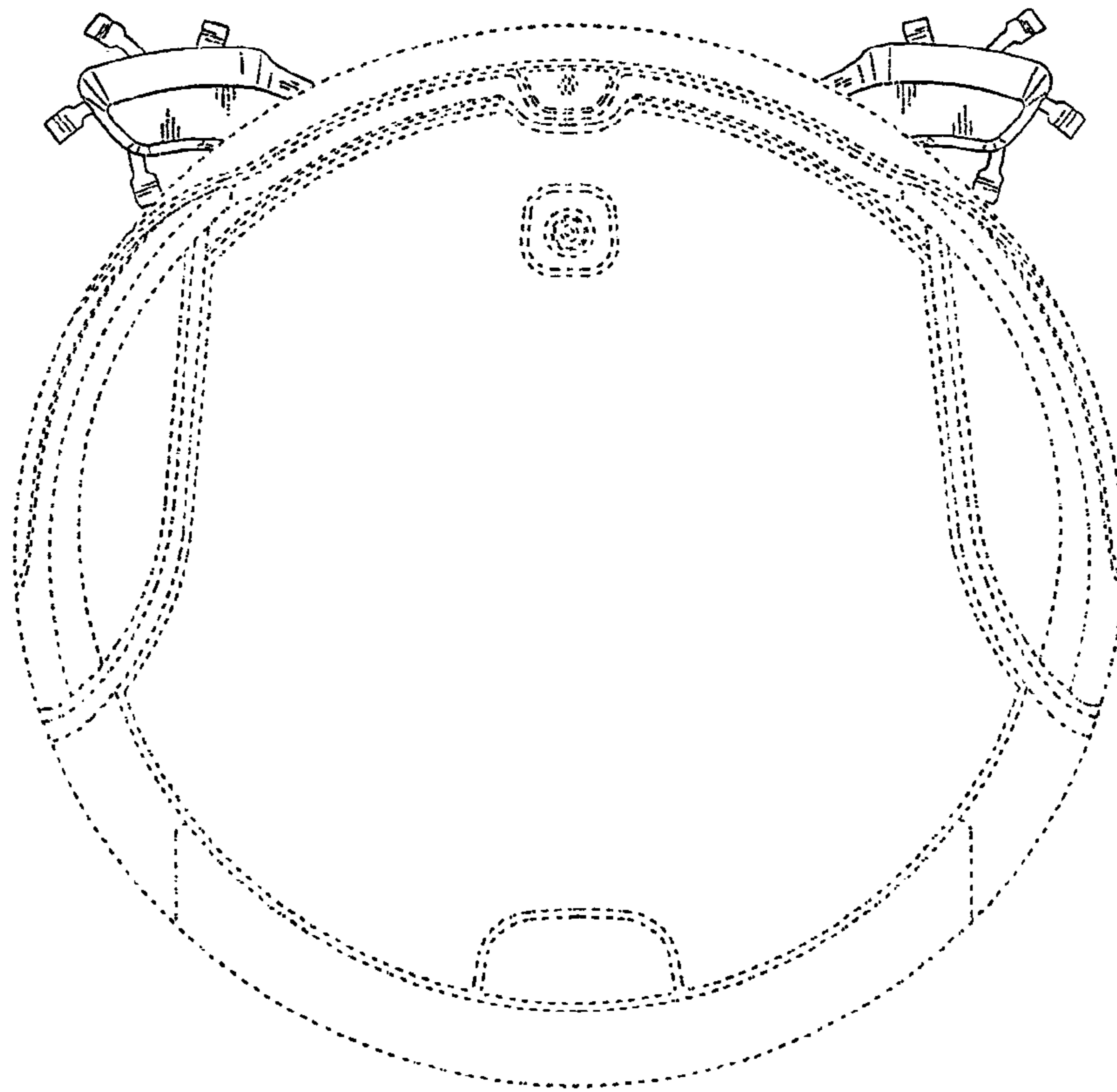


Fig. 7

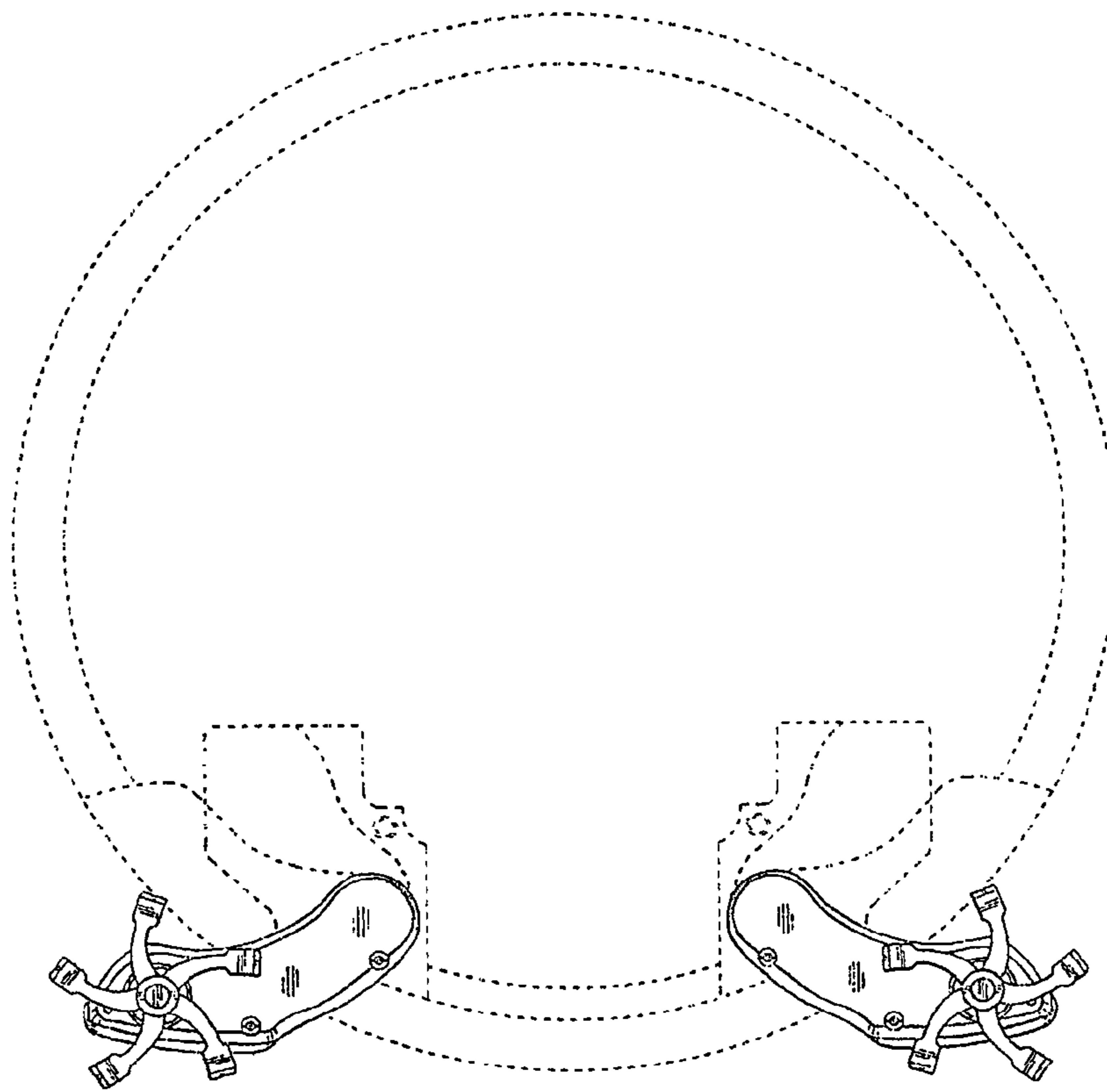


Fig. 8

