

[54] VACUUM CLEANER

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[\*\*] Term: 14 Years

[21] Appl. No.: 375,743

[22] Filed: May 6, 1982

[30] Foreign Application Priority Data

Nov. 9, 1981 [GB] United Kingdom ..... 1003495  
[52] U.S. Cl. .... D32/18  
[58] Field of Search ..... D32/17, 18;  
15/320-327, 344, 412

[56] References Cited

U.S. PATENT DOCUMENTS

D. 211,396 6/1968 Hori ..... D32/18  
D. 257,661 12/1980 Gantz ..... D32/18  
3,477,087 11/1969 Robinson ..... 15/344

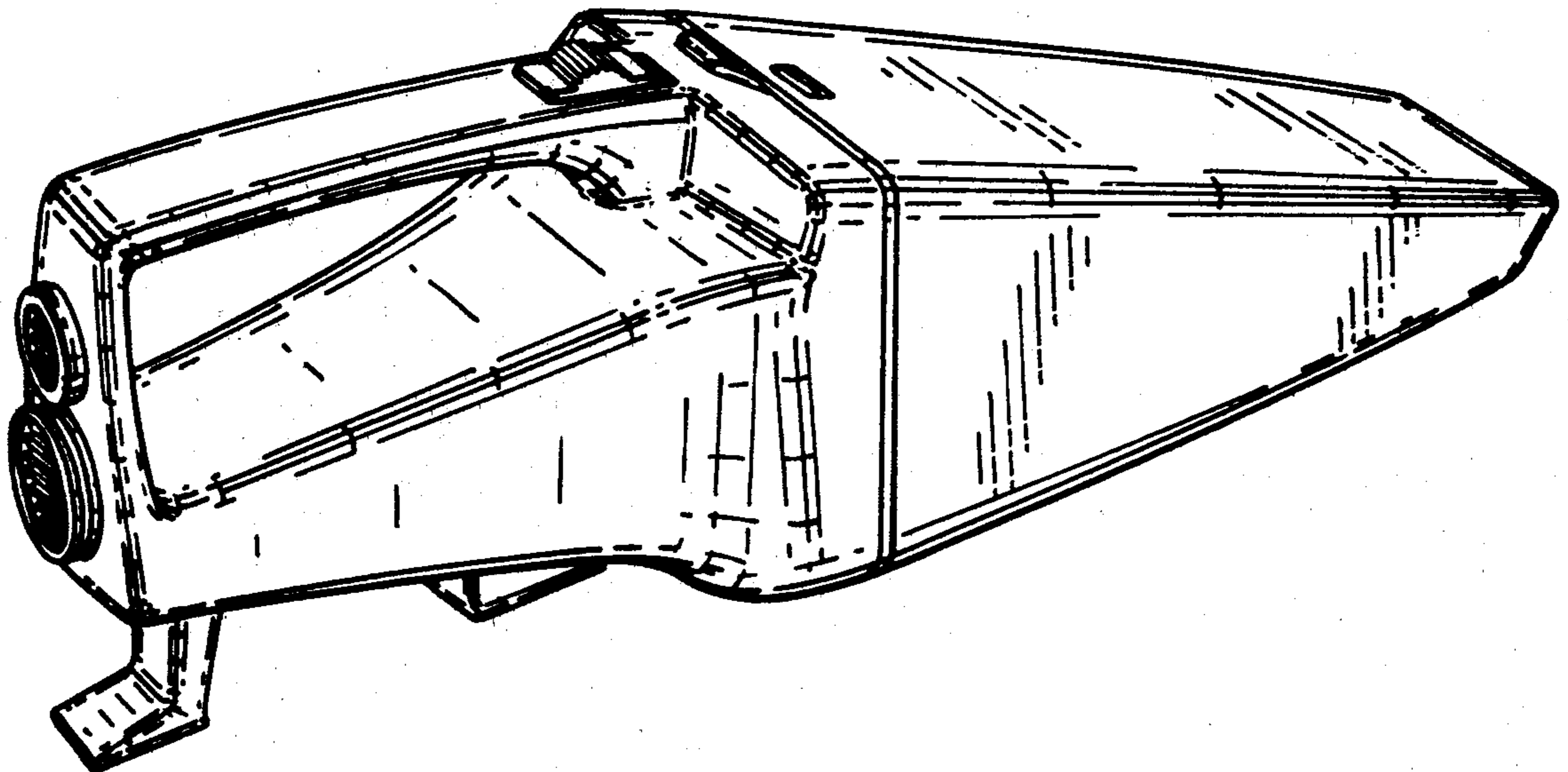
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[57] CLAIM

The ornamental design for a vacuum cleaner, substantially as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a vacuum cleaner showing my new design;  
FIG. 2 is a bottom perspective view thereof;  
FIG. 3 is an elevational view of one side thereof, the other side being a mirror image;  
FIG. 4 is a rear end elevational view thereof.



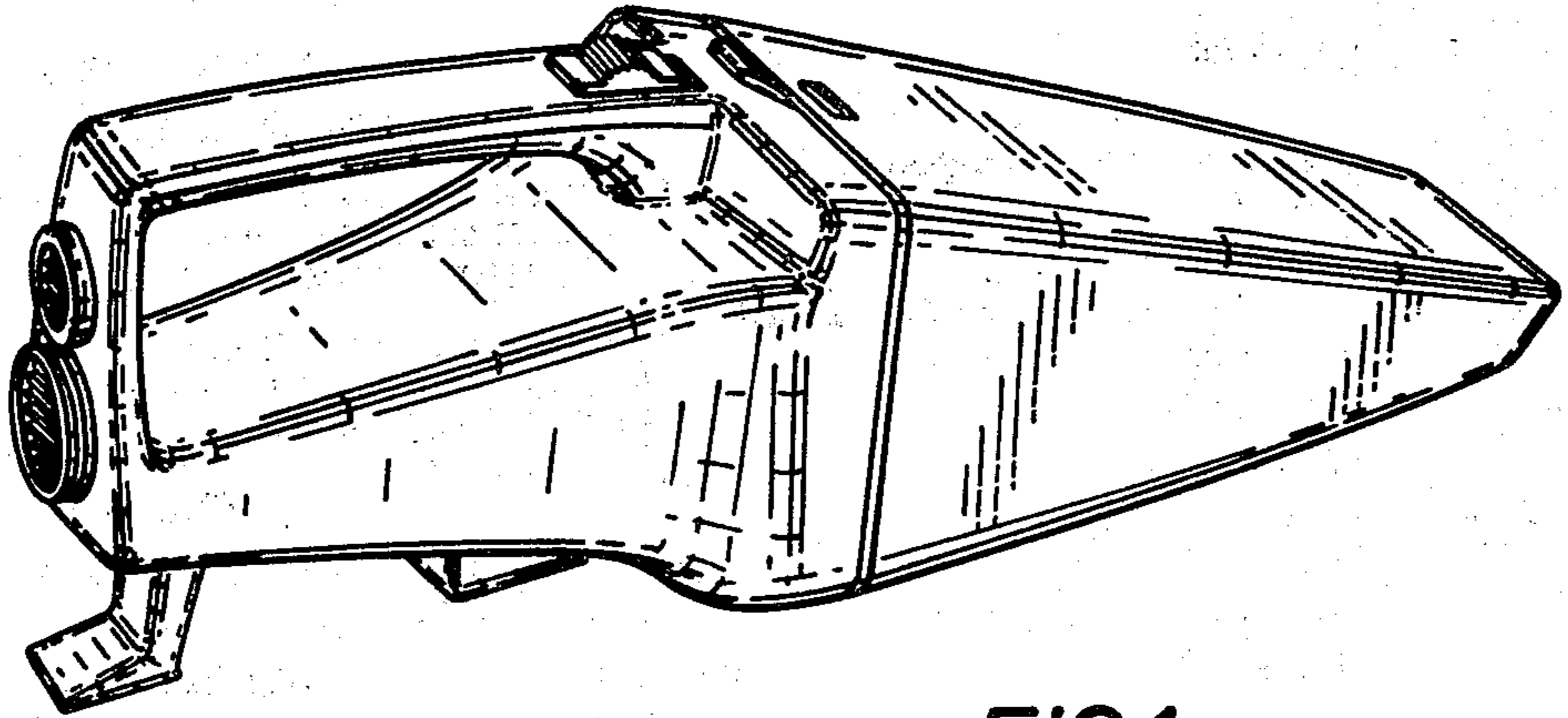


FIG.1.

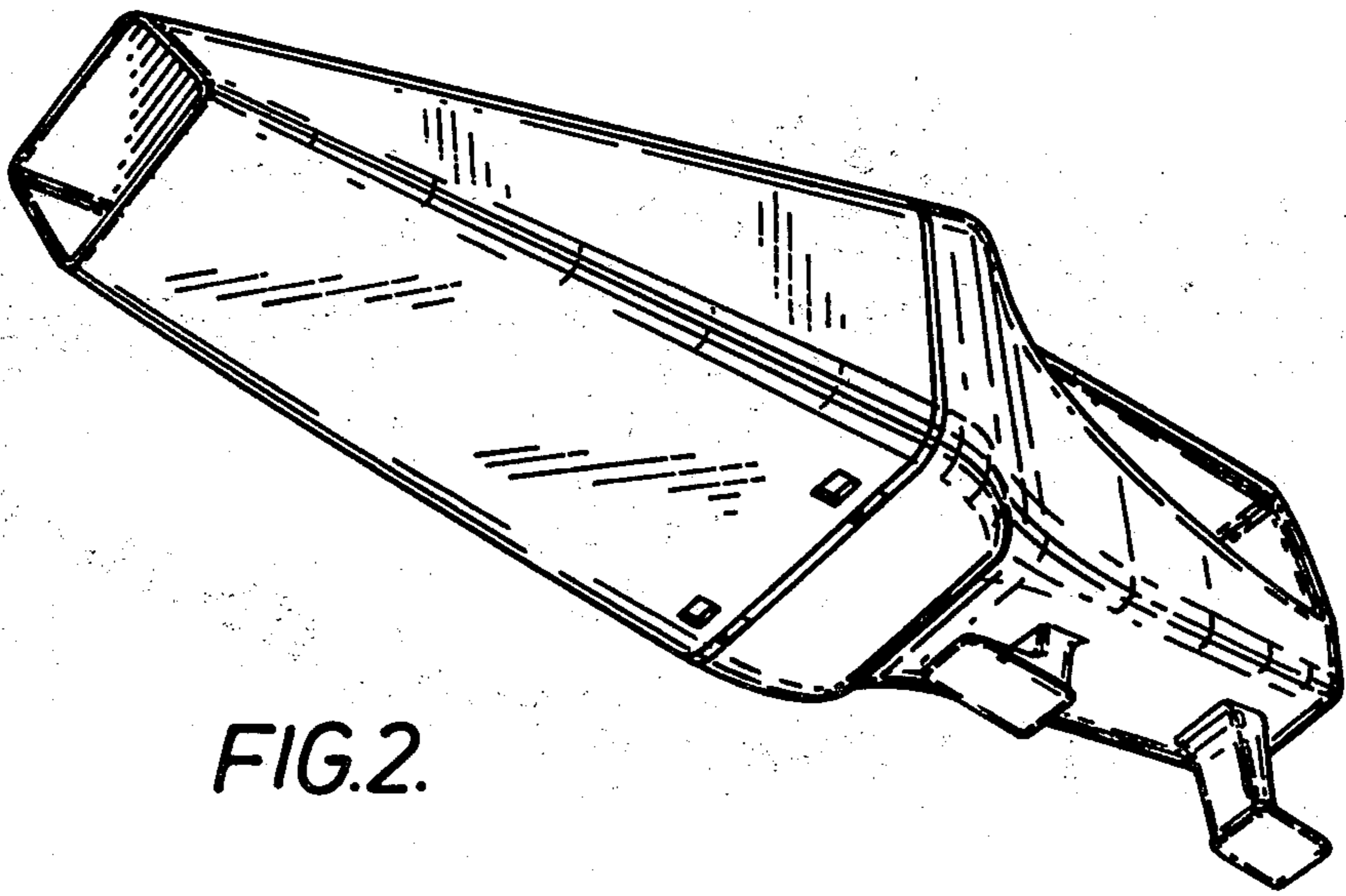
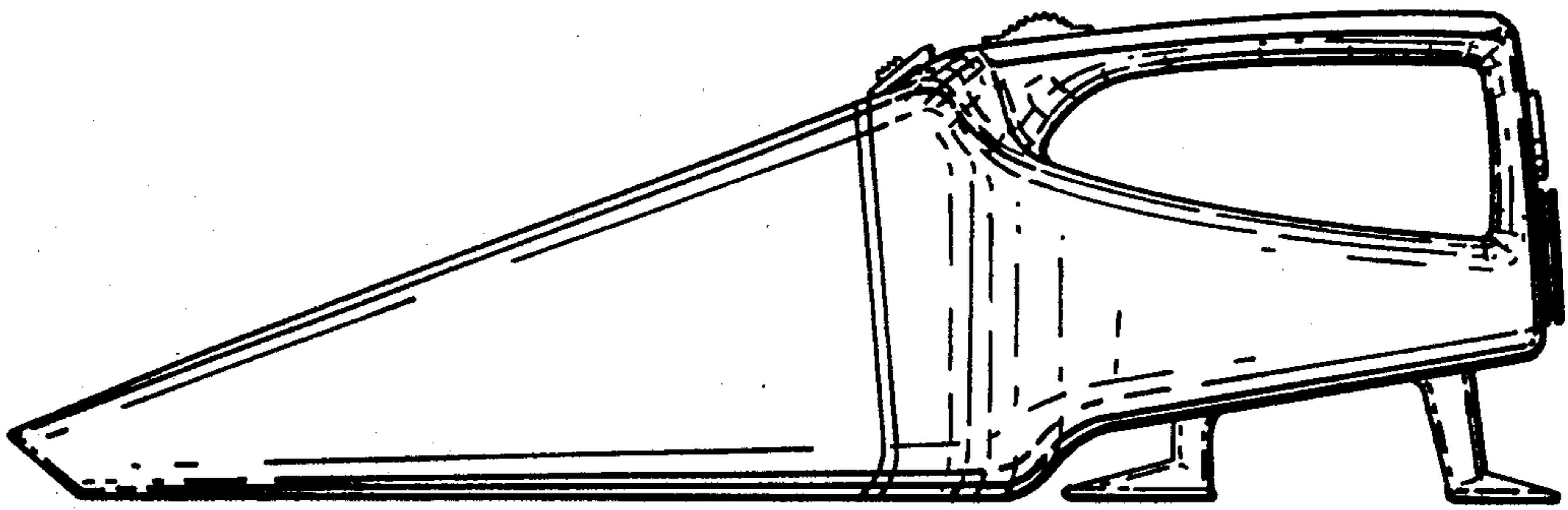


FIG.2.

*FIG.3.*



*FIG.4.*

