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# United States Patent [19]

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Kojima et al.

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[54] ELECTRIC VACUUM CLEANER

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[73] Assignee: Hitachi, Ltd., Tokyo, Japan

[\*\*] Term: 14 Years

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[30] Foreign Application Priority Data

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[52] U.S. Cl. .... D32/21

[58] Field of Search ..... D32/21, 23-24; 15/327.1, 327.2, 327.4, 327.6, 327.7, 347

[56] References Cited

U.S. PATENT DOCUMENTS

D. 246,107 10/1977 Yoshida et al. .... D32/21

D. 297,475 8/1988 Umehara et al. .... D32/21  
D. 311,613 10/1990 Kuriya ..... D32/21  
D. 312,901 12/1990 Miyata et al. .... D32/21  
D. 313,680 1/1991 Ichihara et al. .... D32/21  
D. 315,041 2/1991 Bradd ..... D32/21

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## [57] CLAIM

The ornamental design for an electric vacuum cleaner, as shown.

## DESCRIPTION

FIG. 1 is a top, front and left side perspective view of an electric vacuum cleaner showing our new design; FIG. 2 is a right side elevational view thereof; FIG. 3 is a front elevational view thereof; FIG. 4 is a top plan elevational view thereof; FIG. 5 is a rear elevational view thereof; and, FIG. 6 is a bottom plan view thereof.

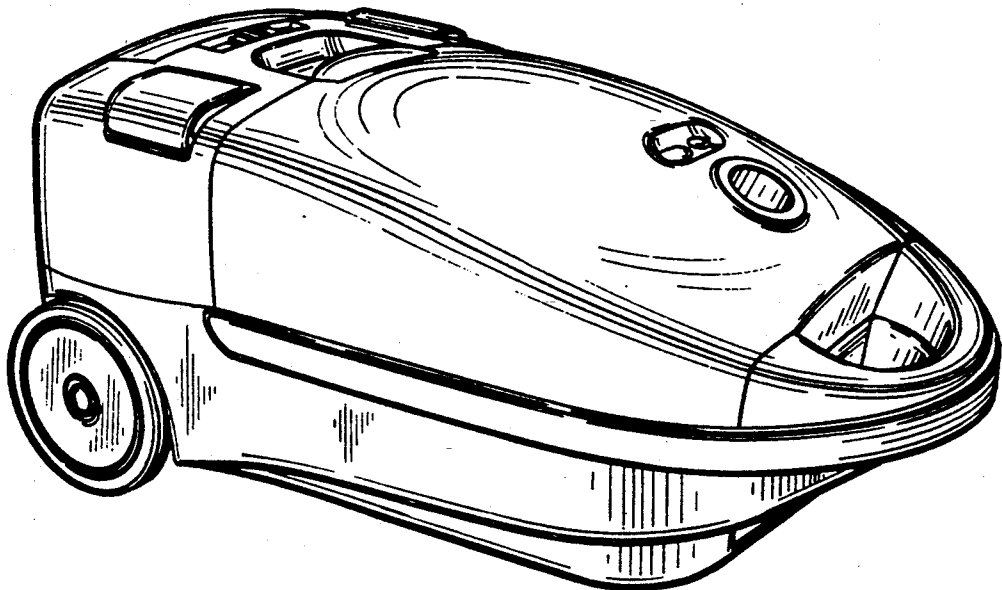


FIG. 1

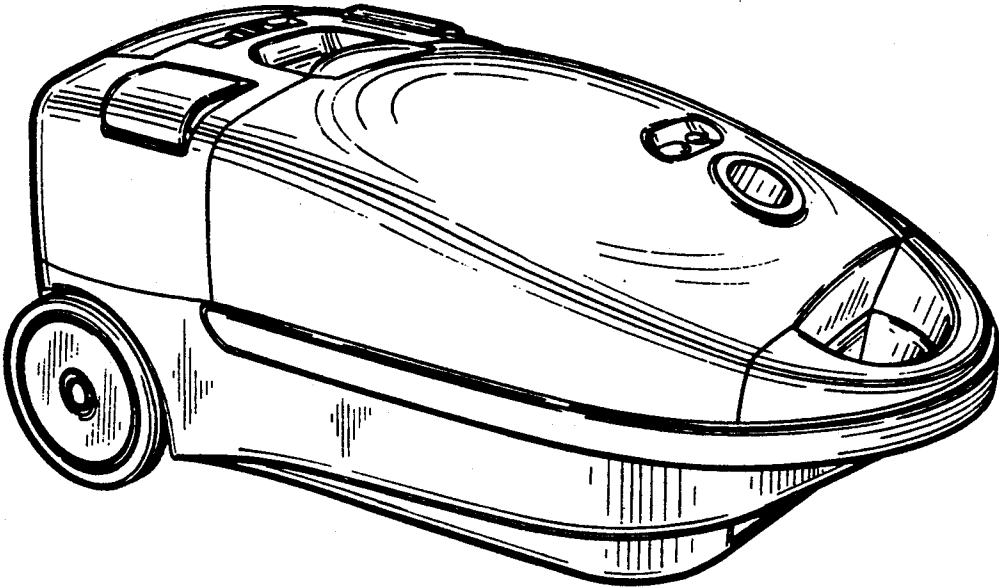


FIG. 2

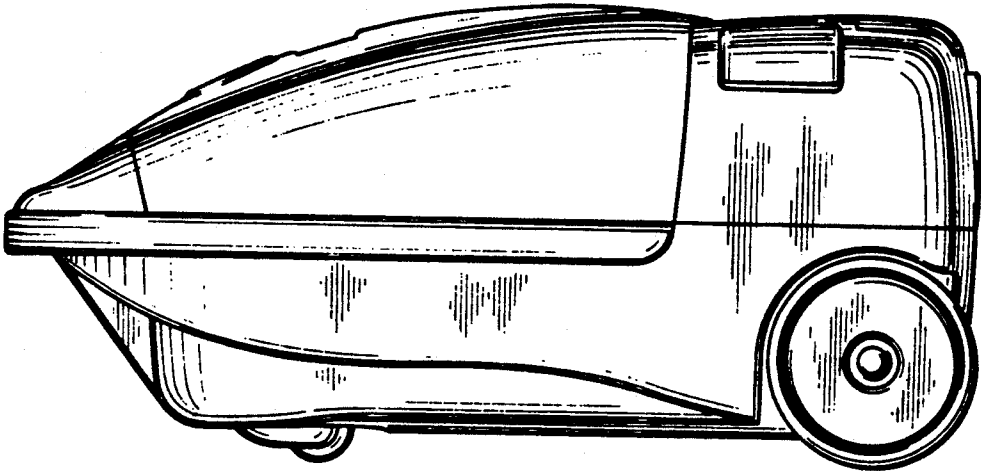


FIG. 3

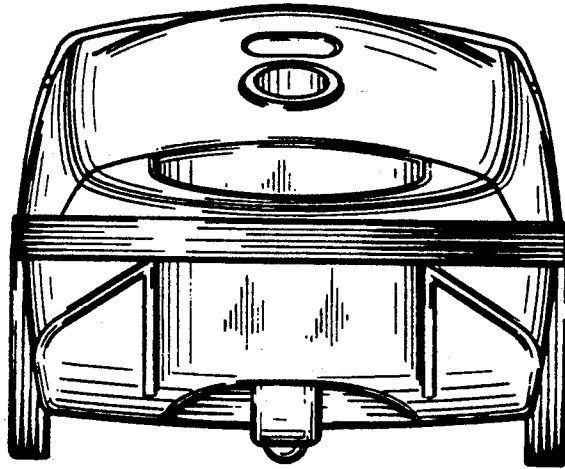


FIG. 4

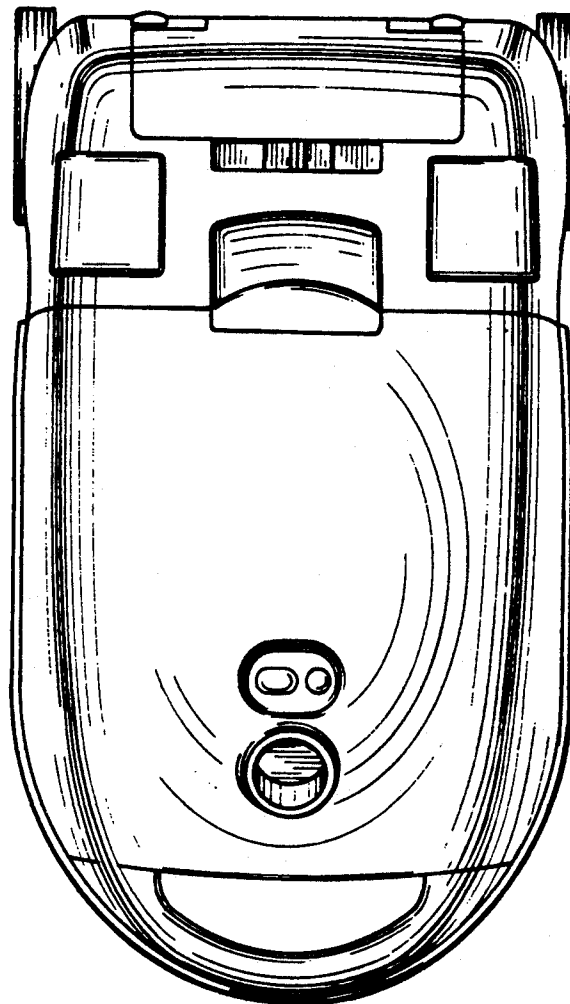


FIG. 5

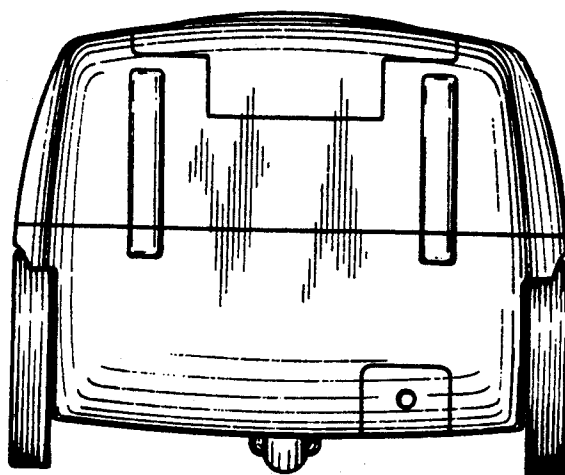


FIG. 6

