PORTABLE VACUUM CLEANER

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Term: 14 Years

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Related U.S. Application Data

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U.S. Cl. .................................. D32/18
Field of Search .............................. D32/17-18, 21, D32/31-33; 15/373, 396, 398, 415.1-416, 322, 344, 329, 320, 321, 347, 353

References Cited

U.S. PATENT DOCUMENTS

D. 301,646 6/1989 Yamamoto et al .
D. 357,772 4/1995 Yuen .................. D32/18
D. 368,558 4/1996 Wolfe et al .................. D32/18

D. 371,651 7/1996 Bass et al . .................. D32/18
D. 376,228 12/1996 Bass et al . .................. D32/18
D. 379,691 6/1997 Moine et al .
D. 388,562 12/1997 Doria .
D. 388,563 12/1997 Lui .................. D32/18
4,924,548 5/1990 Touya et al .

OTHER PUBLICATIONS


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CLAIM

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

DESCRIPTION

FIG. 1 is a front perspective view of a portable vacuum cleaner showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a front elevational view thereof;
FIG. 5 is a rear elevational view thereof;
FIG. 6 is a left side elevational view thereof, the right side elevational view being a mirror image thereof;
FIG. 7 is a front perspective view of a second embodiment thereof;
FIG. 8 is a top plan view thereof;
FIG. 9 is a bottom plan view thereof;
FIG. 10 is a front elevational view thereof;
FIG. 11 is a rear elevational view thereof; and,
FIG. 12 is a left side elevational view thereof, the right side elevational view being a mirror image thereof.

1 Claim, 8 Drawing Sheets