

(12) **United States Patent**  
**Factora et al.**

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(54) **HOUSEHOLD VACUUM CLEANER ATTACHMENT**

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See application file for complete search history.

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(56) **References Cited**

U.S. PATENT DOCUMENTS

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D325,656	S *	4/1992	Davis	.....	D32/21
5,375,928	A *	12/1994	Yarng et al.	.....	383/24
5,904,196	A *	5/1999	Wickers	.....	150/165
D428,964	S *	8/2000	King	.....	D23/213
7,347,166	B2 *	3/2008	Roman-Barcelo	...	A01K 13/002
					119/677
2002/0170140	A1 *	11/2002	Diaz et al.	.....	15/415.1
2003/0019063	A1 *	1/2003	Abraham	.....	15/167.1
2003/0183242	A1 *	10/2003	Kemp et al.	.....	132/311
2005/0120511	A1 *	6/2005	Pedersen	.....	15/402

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\* cited by examiner

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(57) **ABSTRACT**

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Embodiments may include an attachment for a vacuum cleaner calculated and adapted to engage the interest of a child. Thus, and embodiment may include a main body having an entertaining three dimensional adaptation for entertaining a child. It may also include an outlet end of the main body adapted to engage the suction end of a household vacuum cleaner hose, and an inlet end of the main body adapted to receive dirt and/or debris contained in an air-stream, wherein the inlet end is in fluid communication with the outlet end.

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(52) **U.S. Cl.**

CPC ..... *A47L 9/00* (2013.01); *A47L 7/0085* (2013.01); *A47L 9/248* (2013.01)

(58) **Field of Classification Search**

CPC ..... *A47L 5/28*; *A47L 9/248*; *A47L 9/009*; *A47L 9/02*; *A47L 9/242*; *A47L 7/04*  
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**18 Claims, 10 Drawing Sheets**

