US009410309B2

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

(10) **Patent No.: US 9,410,309 B2**
(45) **Date of Patent: Aug. 9, 2016**

(54) **WALL SHOWER BAR ASSEMBLY**

(71) Applicant: **Waxman Consumer Products Group Inc.**, Bedford Heights, OH (US)

(72) Inventors: **Jason A. Sharratt**, Wadsworth, OH (US); **Matthew Smith**, Wooster, OH (US)

(73) Assignee: **Waxman Consumer Products Group Inc.**, Bedford Heights, OH (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 207 days.

(21) Appl. No.: **13/955,656**

(22) Filed: **Jul. 31, 2013**

(65) **Prior Publication Data**

US 2015/0033470 A1 Feb. 5, 2015

(51) **Int. Cl.**

E03C 1/02	(2006.01)
E03C 1/04	(2006.01)
B05B 1/18	(2006.01)
B05B 1/16	(2006.01)
E03C 1/06	(2006.01)

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

CPC ***E03C 1/0408*** (2013.01); ***B05B 1/1672*** (2013.01); ***B05B 1/18*** (2013.01); ***E03C 1/025*** (2013.01); ***E03C 1/066*** (2013.01)

(58) **Field of Classification Search**

CPC E03C 1/0408; E03C 1/02; E03C 1/021; E03C 1/025; E03C 1/04; E03C 1/06; E03C 1/066; B05B 1/14; B05B 1/16; B05B 1/1627; B05B 1/1636; B05B 1/1672; B05B 1/1681; B05B 1/18; B05B 1/185

USPC 4/601, 695, 615; 239/443–449

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,121,235	A *	2/1964	Gellmann	4/570
4,901,927	A	2/1990	Valdivia	
D517,669	S	3/2006	Zieger et al.	
7,043,776	B1	5/2006	Wu	
7,222,828	B2	5/2007	Zhadanov et al.	
7,299,510	B2	11/2007	Tsai	
D559,949	S	1/2008	Bickler et al.	
D564,625	S	3/2008	Bickler et al.	
D594,531	S	6/2009	Daunter et al.	

(Continued)

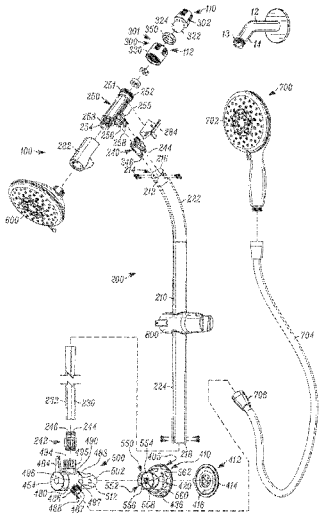
OTHER PUBLICATIONS

Catalog Entitled "Ateck® 2001-2011", published by Ateck (Xiamen) Showers Co., Ltd., No. 2 Factory, Dianqianshe, Gaodian, Dianqian St., Hull, Xiamen, Fujian, China. (28 pages).

Primary Examiner — J. Casimer Jacyna

(74) *Attorney, Agent, or Firm* — Tarolli, Sundheim, Covell & Tummino LLP

(57) **ABSTRACT**

A wall shower bar assembly (**100**) mounted to a shower wall (**10**). The wall shower bar assembly (**100**) includes: a tube assembly (**200**), an upper retainer assembly (**300**) for coupling an upper portion (**102**) of the bar assembly to a water supply pipe (**12**), and a lower retainer assembly (**400**) for coupling a lower portion (**104**) of the bar assembly to the wall. The upper and lower retainer assemblies (**300**, **400**) define a dual joint connection structure (**110**) including an upper spheroidal joint connection assembly (**112**) and a lower pivot joint connection assembly (**114**). Both the upper and lower joint connection assemblies (**112**, **114**) permit relative pivoting movement of the bar assembly (**200**) about pivot axes (P**1**, P**2**) substantially parallel to the wall. The lower retainer assembly **400** includes a suction cup retaining assembly (**410**) including a camming mechanism (**420**) for securing a section cup (**412**) to the wall.

20 Claims, 10 Drawing Sheets