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(54) **SHOWER ARM LEAK DETECTION DEVICE WITH ADJUSTABLE SLEEVES**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1459 days.

3,136,570	A *	6/1964	Lee	285/193
4,158,366	A *	6/1979	Van Meter	137/312
4,314,580	A *	2/1982	Steinwand	137/360
4,473,244	A *	9/1984	Hill	285/14
4,836,237	A *	6/1989	McCullough	137/312
5,603,347	A *	2/1997	Eaton	137/360
5,842,499	A *	12/1998	Hall	137/360
6,378,912	B1 *	4/2002	Condon et al.	285/220
6,394,125	B2 *	5/2002	White	137/312
6,460,432	B1 *	10/2002	Julian et al.	81/125.1
6,668,852	B1 *	12/2003	Williamson	137/312
2005/0247347	A1 *	11/2005	McNerney	137/360
2009/0056815	A1 *	3/2009	Fitzpatrick	137/15.17

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* cited by examiner

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(57) **ABSTRACT**

A shower arm leak detection device with adjustable sleeves is disclosed. In a particular embodiment, the shower arm leak detection device includes a tubular sleeve having a first end and a second end, where the first end is adapted to be secured over a drop ear 90° plumbing fitting on an interior side of a wall and the second end is adapted to be open to an exterior side of the wall. The drop ear 90° fitting includes a port adapted to be secured to a shower arm, where a connection at the port and threading of the shower arm is susceptible to leakage. An outer sleeve is adapted to slide partially over the tubular sleeve, where the outer sleeve allows for adjustment to the width between the connection of the port and the shower arm and the exterior side of the wall in telescoping fashion.

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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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See application file for complete search history.

16 Claims, 4 Drawing Sheets

