United States Patent [19]

Mink

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[54] **ELECTRONICALLY OPERATED TIPPING-BUCKET RAIN GAUGE**

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[52] **U.S. Cl.** **73/171**

[51] **Int. Cl.**[2] **G01W 1/14**

[58] **Field of Search** 73/171, 217, 218, 424

[56] **References Cited**

UNITED STATES PATENTS

1,373,049	3/1921	Boettcher	73/218
1,381,864	6/1921	Evans et al.	73/217
3,127,769	4/1964	Stucky et al.	73/171
3,705,533	12/1972	Kahl et al.	73/171
3,721,122	3/1973	Lucas	73/171

FOREIGN PATENTS OR APPLICATIONS

1,448,122	6/1966	France	73/424

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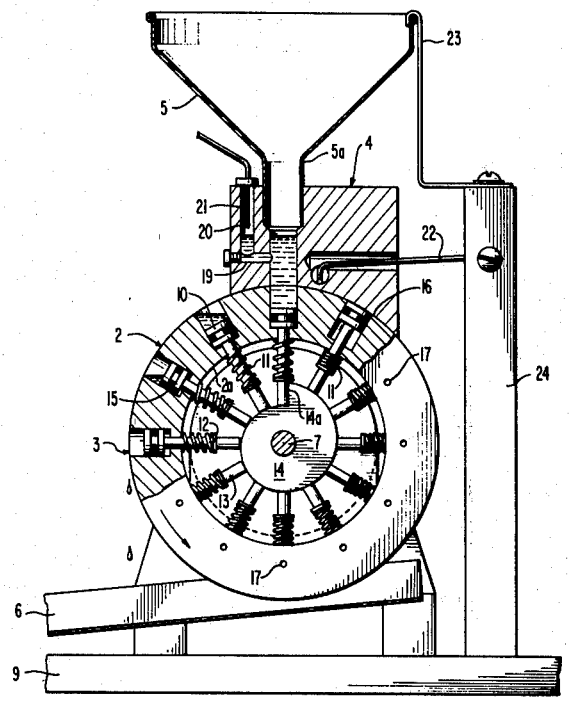
[57] **ABSTRACT**

A rotary bucket wheel is positioned beneath and communicates with a water column of collected rain. When the water column exceeds a certain height, as determined by an electronic probe circuit, the bucket wheel is actuated whereby a predetermined volume of water is removed from the bottom of the water column.

11 Claims, 3 Drawing Figures