United States Patent

Kahl et al.

[15] **3,705,533**

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[54] **PRECIPITATION SENSOR**

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[52] **U.S. Cl.** **73/171,** 177/94
[51] **Int. Cl.** **G01w 1/14**
[58] **Field of Search**.....73/171; 177/94–97, 177/102, 115; 335/205, 206; 200/61.04

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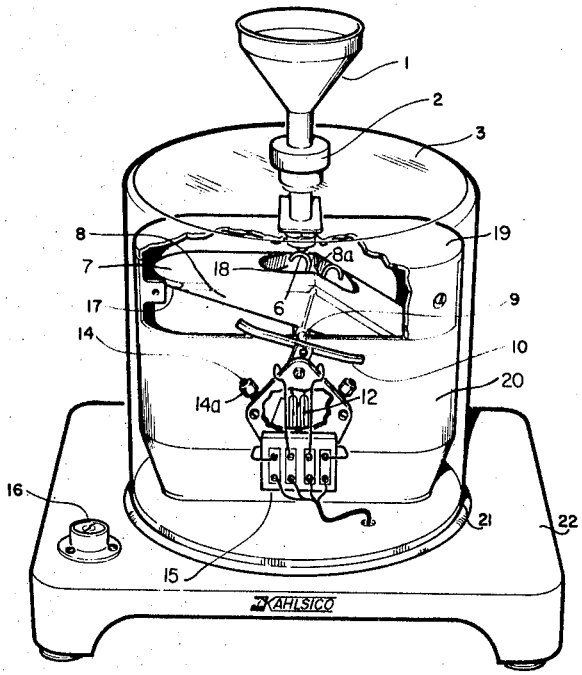
[57] **ABSTRACT**

A precipitation sensor having two buckets secured to each other for tilting movement between two end positions, is provided with a precipitation collecting and distributing means which collects precipitation during tilting of the buckets and has a normally closed valve operated by the buckets to open when the same are in the end positions so that the collected precipitation is alternately discharged into the buckets. Evaporation retarding covers with small inlet cutouts close the tops of the buckets, adjustable elastic abutments stop the buckets without bouncing back, and magnetic switch means generate a counting pulse for each tilting movement.

12 Claims, 5 Drawing Figures