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dial of 0 to 10 inches. 29 shows a single peg for striking second dial. 30 shows dial of 10 to 100 inches with knocker pegs. FIG. 6. A side view of the worm gear knocker combination showing the component that has two ½ inch shafts protruding for dial sleeves to rotate on; also, end of shaft that protrudes from housing, for tilting, to set or re-set, and the pressure from the weight of the unit to enmesh the worm gear.

FIG. 6, 31 shows end of shaft that protrudes from housing. 32 shows sleeve of component that tilts for resetting and also allows the weight of the component to enmesh the worm drive.

FIG. 7 shows the Water Wheel All Season Rain Gage with optional show tube section attached. Mounted on a 3 × 4 wood post with cross pieces to attach the brackets. The cross pieces, or end of post, should be a minimum of 2 inches below the top of funnel so as not to create raindrop bounce that would enter Gage. Bottom gage should be 5½ feet from ground to prevent livestock from nosing and small children turning dials and located away from buildings or trees where the sun could shine on it on the clear days to melt the snow.

FIG. 7 33 shows 3 × 4 post with cross pieces for mounting gage. 34 shows a snow tube mounted on top. 35 shows post and cross piece 2 inches below trough to eliminate raindrop bounce that could enter the gage.

FIG. 8 shows an optional rectangular tube 3 × 10 inches and 24 inches long with bottom having an offset ¾ inch long to enter gage housing with two brackets 4 inches from top, to attach to crossbar. This would measure the moisture contents in the snowfall. When the sun warms the unit up and the snow melts, the gage would tell the farmer how many inches of moisture that has entered the soil for spring and summer crops. This should be desirable for the dryland farmers of grain, corn and livestock.

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FIG. 8 drawing show optional snow tube 10. 36 shows the recess that slips into rain gage trough. 37 shows mounting brackets.

I claim:

1. A gage for measuring atmospheric precipitation comprising: a trough having an inlet for collecting atmospheric precipitation and an outlet for discharging said precipitation, a water wheel driven by said discharged precipitation, a plurality of dial indicators rotated by said water wheel and slotted sleeve bearings used to mount said wheel and said indicators thereby providing lubrication by said precipitation resulting in uniform friction over an extended period.

2. The gage of claim 1 further comprising a flange rotated by said water wheel and containing a peg mounted thereon, said dials comprising a first and second dial each having a peg mounted thereon and a third dial, whereby said flange rotates said first dial, said first dial rotates said second dial and said second dial rotates said third dial.

3. The gage of claim 1 further comprising a hinged screen cover used to protect said dials from birds and blowing debris.

4. The gage of claim 1 further comprising a housing enclosing said water wheel, said housing containing an inlet defined by said trough and an outlet, said inlet and outlet each containing a screen, thereby preventing insects from hiving or nesting inside said housing.

5. The gage of claim 1 further comprising a worm gear driven by said water wheel, said dials comprising a first dial driven by said gear, a peg mounted on said first dial and a second dial driven by said peg.

6. The gage of claim 1 further comprising an optional snow tube connected to said trough, thereby providing a means for collecting snow resulting in rotation of said water wheel upon thawing of said snow.

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