

**recharge
Assembly**

**Discharge
Assembly:**
the discharge assembly is
just a gear box and a
DC generator.

Water
Level

**Metal
Pocket
Weight**

**Water
Well**

Re-charge assembly is just a solar powered air pump ... it can be very simple, almost unregulated ... because it continuously produces air through the air hose. When the "metal pocket weight" or bell gets to the bottom (total discharge), it then starts filling, slowly, with air. When the bell reaches the top, you can have a simple tipping mechanism, to release the air, this would mean putting the bell on guides.

Metal pocket weight, is really just like a heavy bell ... with an air pocket underneath. Design the bell/weight system, such that its mass drops enough, when the pocket fills with air, to ascend: or re-charge.

Recharge

Discharge

Air, in small amounts, constantly emitted by the pump line.

If you are doing aquaculture? - you could use this approach and the excess air produced can keep your pond healthy.

