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**COMPUTER IMPLEMENTED METHOD FOR CONTROLLING
EBB FLOW WATERING SYSTEMS**

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Assigned to IP Holdings, LLC, Vancouver, WA (US)

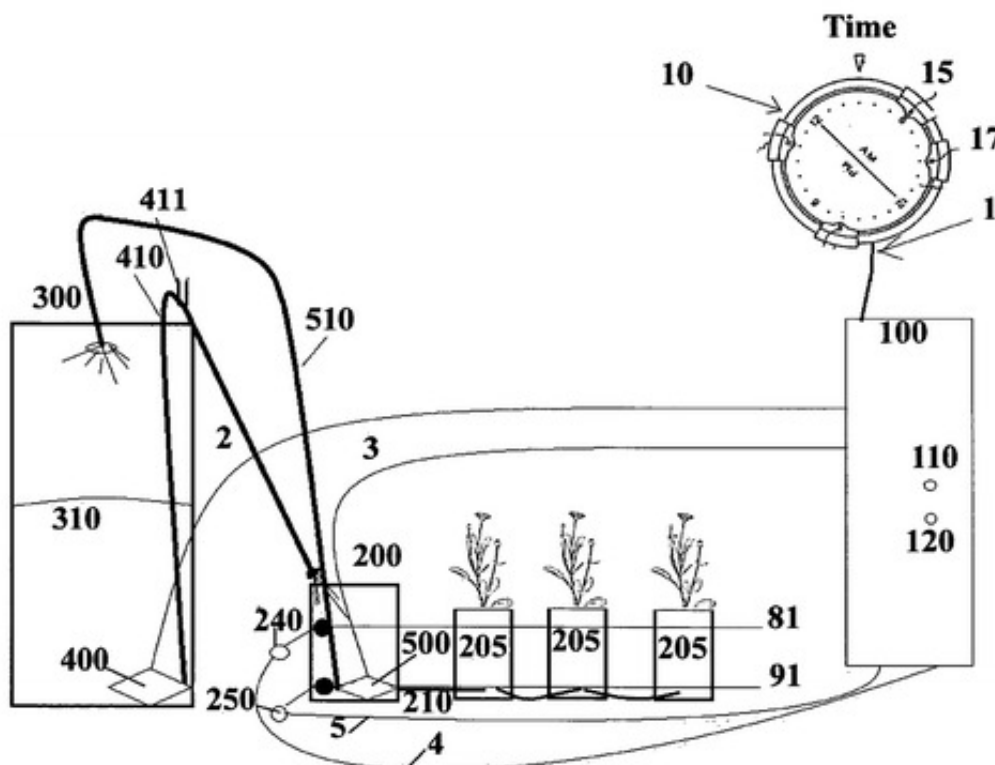
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12 Claims

1. A computer-controlled ebb and flow watering method utilizing two float switches, two water pumps, a timer, and a control bucket, comprising the steps of:
 - initializing fill time period with a timer;
 - determining the state of a top float switch and a bottom float switch in a control bucket;
 - powering on a fill pump if the top float switch is down;
 - starting an internal timing clock if the top float switch is up;
 - restarting the internal timing clock if the top float switch drops from up to down;
 - shutting off the fill pump if the internal timing clock runs for a complete fill period;
 - initializing drain time period after fill time period ends with a timer;
 - determining the state of a top float switch and a bottom float switch in a control bucket;
 - powering on a drain pump if the bottom float switch is up;
 - starting an internal timing clock if the bottom float switch drops from up to down;
 - restarting the internal timing clock if the bottom float switch raises from down to up; and
 - shutting off the drain pump if the internal timing clock runs for a complete drain period.