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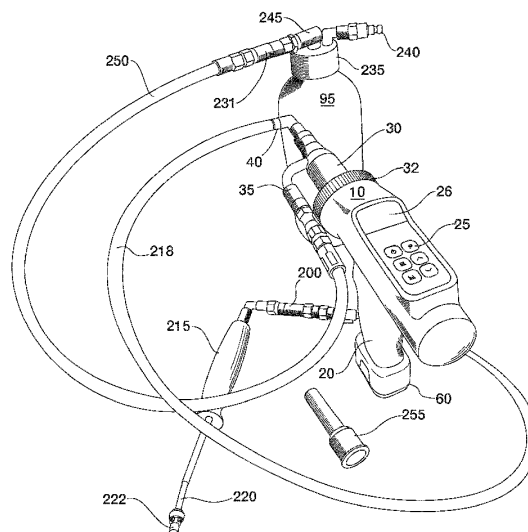


Figure 6

(57) Abstract: Apparatus for injecting liquid into a plant comprising a variable volume dosing chamber (30) with a plunger (55) disposed within the chamber (30) and a chamber inlet (35) and outlet (40), the inlet (35) and outlet (40) in fluid communication with a common volume of the chamber (30). The apparatus also comprises a motor (45) and a processor (70). The motor (45) is configured to drive movement of the piston (55) plunger (55) causing a change in volume in the chamber (30). The processor (70) is configured to control voltage and power (100) to the motor (45) by creating a plurality of pulses of power (100) that provide energy to said motor (45); to identify a change in pressure of the liquid discharged from the outlet (40) during an injection operation by monitoring the motor (45) current or the number of revolutions of the motor (45); and to vary pulse force in response to the identified change in pressure to control the pressure of the liquid discharged from the outlet (40).

[Continued on next page]

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