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(54) Title: SELF-BALANCING POULTRY WATER DISTRIBUTION SYSTEM

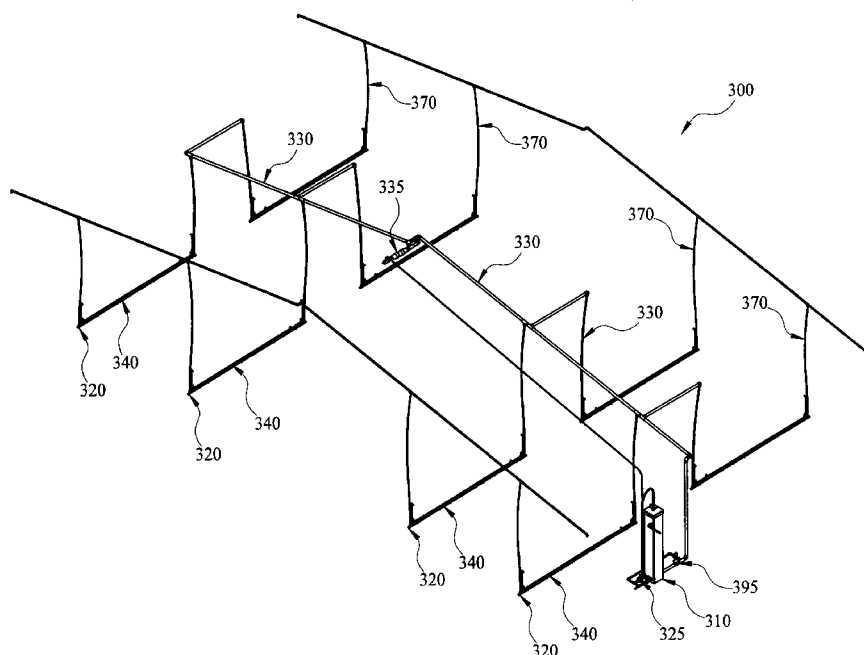


FIG. 3A

(57) Abstract: An improved, self-balancing water distribution system uses siphon characteristics to maintain negative pressure within the water system and to enable distribution of water to one or more distribution points, such as drinker lines with drinker nipples, at a controlled pressure, for consumption by poultry. The system includes water conduit (230) connected to and configured to distribute water from a water supply reservoir (210) to the one or more distribution points. The water level (212) of the water supply reservoir is used to control the water pressure within the system. A vacuum apparatus (225) is connected to the water conduit to remove entrapped air within the system to help maintain negative pressure within the conduit and throughout the system.

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