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flow measuring device including liquid level sensing apparatus operatively mounted in said flow measuring device, said liquid level sensing apparatus comprising a housing, a pivot shaft journaled in said housing for rotation about a substantially horizontal axis and having one end thereof extending outside of said housing, a float arm outside of said housing and having one end thereof fixed to said pivot shaft for movement of said float arm in a vertical plane, a float rigidly affixed to the other end of said float arm and adapted to ride upon the surface of the flowing stream of sewage as it flows through said measuring device, and means connected with said pivot shaft for indicating the elevation of said float, said housing being mounted at such a level above said measuring device and said float arm being of such length that said float arm is disposed more nearly horizontal than vertical.

2. Apparatus in accordance with claim 1 wherein the means for indicating the elevation of said float comprises an inductance coil having end and midpoint terminals, a movable core arranged at the axis of said coil, means for connecting the pivot shaft with said core whereby the position of said core within said coil is responsive to the rotational position of said pivot shaft, the arrangement being such that when the end terminals of said coil are connected to an alternating voltage the potential of said midpoint terminal is responsive to the elevation of said float.

3. Apparatus in accordance with claim 1 wherein the channel-type open flow measuring device comprises a Parshall flume and the float is located in the converging section thereof.

4. Apparatus in accordance with claim 1 wherein the channel-type open flow measuring device comprises an open flow nozzle and the float is located in the nozzle.

5. Apparatus in accordance with claim 1 wherein the float is substantially spherical.

6. Apparatus in accordance with claim 1 and including adjustable means for counter-balancing the float and float arm.

7. Apparatus in accordance with claim 6 wherein the counter-balancing means and the means for indicating the elevation of the float are contained within the housing and said housing is watertight.

8. Apparatus in accordance with claim 1 wherein the float arm is arranged substantially in line with the direction of flow of the stream of sewage as it flows through the measuring device.

9. Apparatus in accordance with claim 8 wherein the float arm is arranged with the float end downstream.

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10. Apparatus for measuring the rate of flow of a gravity flowing stream of sewage comprising a channel-type open flow measuring device including liquid level sensing apparatus operatively mounted in said flow measuring device, said liquid level sensing apparatus comprising a housing, a pivot shaft journaled in said housing for rotation about a substantially horizontal axis and having one end thereof extending outside of said housing, an arm outside of said housing and having one end thereof fixed to said pivot shaft for movement of said arm in a vertical plane, means rigidly affixed to the other end of said arm and adapted to ride upon the surface of the flowing stream of sewage for elevating or lowering said other end of said arm responsive to changes in the level of the surface of the flowing stream of sewage as it flows through said measuring device, and means connected with said pivot shaft for indicating the elevation of said other end of said arm, said housing being mounted at such a level above said measuring device and said arm being of such length that said arm is disposed more nearly horizontal than vertical.

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