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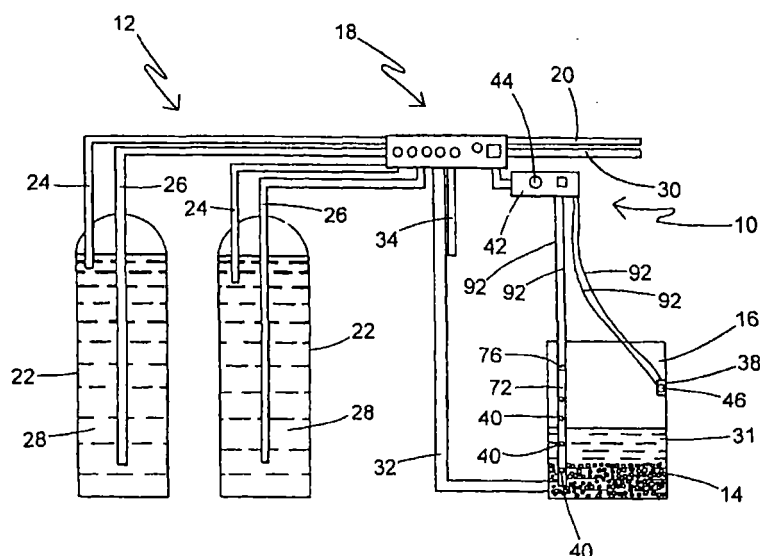
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(54) Title: AUTOMATIC SALT LEVEL MONITOR FOR A WATER SOFTENING DEVICE



(57) Abstract: The present invention provides an automatic monitor (10) for use in a tank (16) with a brine solution. The monitor (10) includes a signal emitter (38) that produces a signal capable of being detected by an array of signal-detecting sensors (40). The sensors (40) are displaced generally vertically in the brine tank (16) from the minimum depth of the brine to the maximum depth of the brine solution. An output is produced in response to said signal. The monitor (10) also includes a controller (42) for receiving and interpreting the output and determining if a low brine condition is present as the supply of the brine is depleted. An indicator (44) warns when a low brine condition is present. Preferably, the sensors (40) are linearly spaced within the tank (16).

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\*ACTION\*

**Declarations under Rule 4.17:**

- as to the identity of the inventor (Rule 4.17(i)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,

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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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