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(54) Title: SMART SOIL SAMPLER

(57) Abstract: The present invention describes a smart soil sampler comprising moisture sensor (1), digital temperature sensor (2), Dfrobot PH meter (3), liquid crystal display (4), thin film transistor (TFT) display (9), programmed microcontroller (5), keypad (8), Arduino memory card (7), GSM SIM 800 (6), mobile phone (10), universal database (11), etched circuit board (14), temperature moisture container (13), pH container (12) and support case device (15). The sampling kit is an automated real-time system adapted to sampling soil type, temperature, moisture and pH and give recommendation basing on the measured parameters. The moisture sensor (1) is connected to the etched circuit board (14) and coded to convert the sensed values. A calibrated program code is uploaded in microcontroller (5) and enables the indication of dry, logy, semi-dry and moist. The invention further discloses a method of sampling soil consisting of soil collection and preparation of soil solution.

