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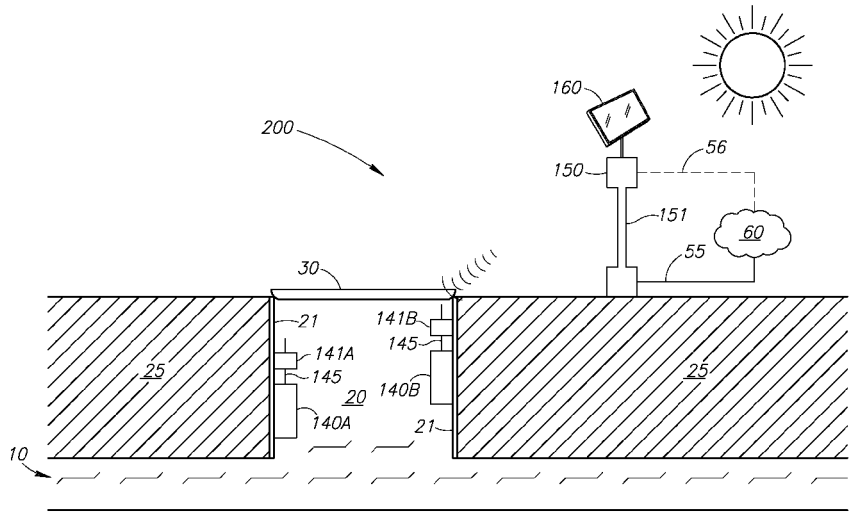


FIG.2B

(57) Abstract: manhole monitoring unit includes a housing mountable to walls of a closed manhole, without breaching an insulating layer on the walls, a data processor to receive data from monitoring sensors in the manhole, and a communication unit at least for transmitting wirelessly the data to an external network unit located above ground. A manhole monitoring and control unit includes a housing mountable to walls of a closed sewage manhole, without breaching the walls, a data processor to receive data from monitoring sensors in the manhole and to control actuators according to high level network commands, and a communication unit for transmitting wirelessly the data to an external network unit located above ground and receiving commands.

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