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(54) **CATHODIC TEST LEAD AND PIG MONITORING SYSTEM**

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(58) **Field of Search** ..... 340/870.07, 870.11, 340/686.1, 686.4; 73/49.5, 40, 40.5 R; 702/187, 702/188; 324/71.2; 346/33 P

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(57) **ABSTRACT**

A pipeline monitoring system includes a series of monitoring stations (20), each having a computer (68), magnetic pig position detector (24), one or more input/output modules (90) and communications module (86). The communications module is operable to transmit data over a communications network from a remotely located monitoring stations (20) to a central monitoring facility (50). Commands transmitted from the central monitoring facility or events generated by the passage of a magnetic pig cause the monitoring station to automatically perform selected processes. The central monitoring facility may also use preprogrammed commands to effect reporting at pre-selected times and dates, and may forward pipe/soil potentials or pipeline damage signals to the central monitoring facility.

**32 Claims, 7 Drawing Sheets**

