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(54) **FLOW ANALYZER FOR HARSH ENVIRONMENTS**

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See application file for complete search history.

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(57) **ABSTRACT**

A flow analyzer includes a flow body having a single-piece construction. The flow body includes a flow path extending through the flow body along a flow direction between opposing inlet and outlet ports and an enclosed wiring conduit extending substantially transverse to the flow direction between a first side of the flow body and a second side of the flow body. The enclosed wiring conduit is isolated from the flow path. An illumination unit is disposed on the first side of the flow body and configured to illuminate fluid within the flow path. An observation unit is disposed on the second side of the flow body and configured to visually observe the fluid within the flow path.

9 Claims, 6 Drawing Sheets

