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(56) Documents Cited:  
US 20090218089 A1 US 20050103497 A1  
WO2011/098328A2  
WO2008/004875A1  
WO2009/108059A2  
CA2677138A1  
US5655605A

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(54) Title of the Invention: **A method and an arrangement for controlling fluid flow into a production pipe**  
Abstract Title: **A method and an arrangement for controlling fluid flow into a production pipe**

(57) A method of controlling fluid flow into a heavy oil production pipe comprises the steps of: reducing inflow into said production pipe locally from hot spots using inflow control devices comprising a movable body provided within a housing, the movable body being arranged to adjust the flow of fluid through the inflow control devices autonomously by exploiting the Bernoulli principle; increasing inflow into said production pipe remote from said hot spots using said inflow control devices to increase inflow locally; and increasing draw down in said production pipe by using an injector to inject a gaseous medium at or downstream of said inflow control devices.

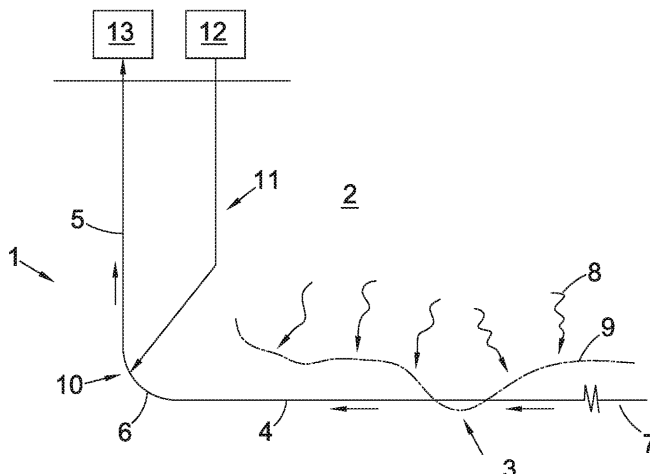


Fig. 1

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