

Title:

FLAP-EQUIPPED POWER FLUID AMPLIFIER

Abstract:

Source: US3754576A A fluid amplifier having a fluid flow inlet, a pair of fluid flow outlets, a control fluid flow inlet and a pivotable triangular flap member located in the branching point of the fluid flow outlets, said member being located downstream of the control fluid inlet and adapted to open either of said fluid flow outlets. The flap member is free from direct actuation by the control fluid but is actuated by the fluid flow guided into either outlet and is pivotably journaled about an axis located within the triangular contour, whereby the flap member is automatically switched ...

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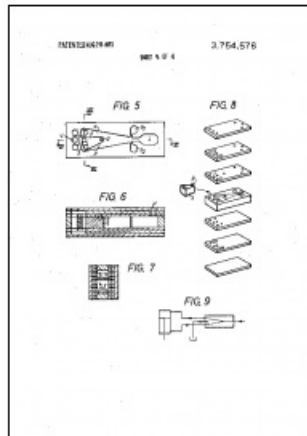
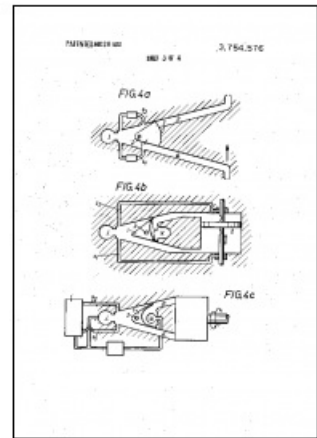
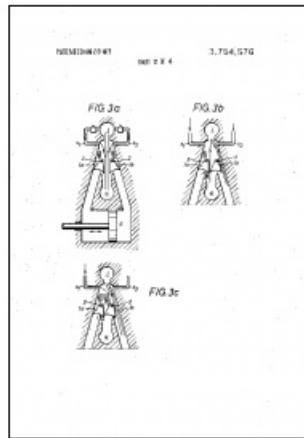
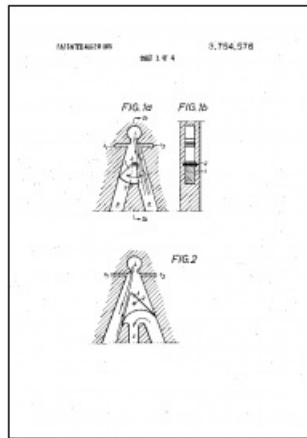
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VOLVO FLYGMOTOR AB
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Title:
VARIABLE FLOW RESISTANCE
FOR USE WITH A
SUBTERRANEAN WELL

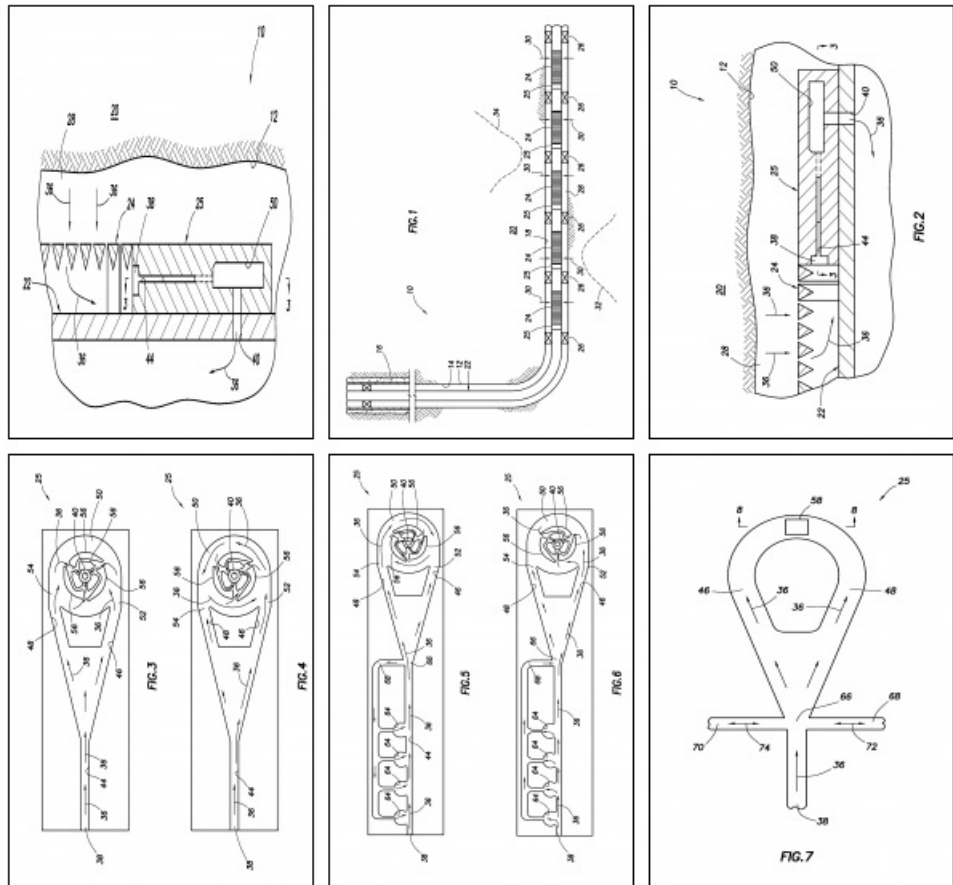
Abstract:

Source: US2013112423A A variable flow resistance system for use with a subterranean well can include a structure which displaces in response to a flow of a fluid composition, whereby a resistance to the flow of the fluid composition changes in response to a change in a ratio of desired to undesired fluid in the fluid composition. Another system can include a structure which rotates in response to flow of a fluid composition, and a fluid switch which deflects the fluid composition relative to at least two flow paths. A method of variably resisting flow in a subterranean well can include a ...

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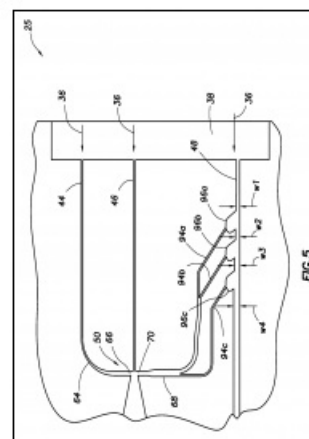
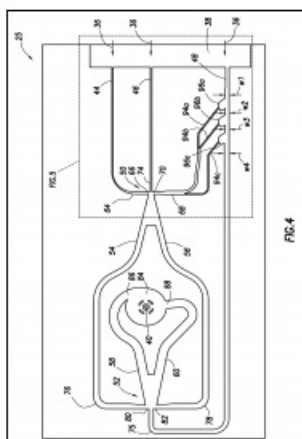
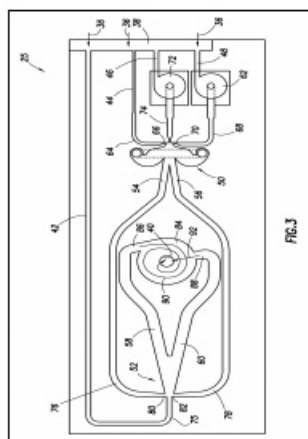
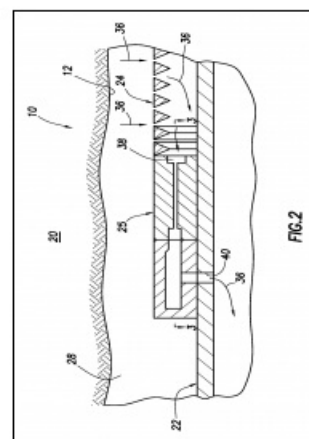
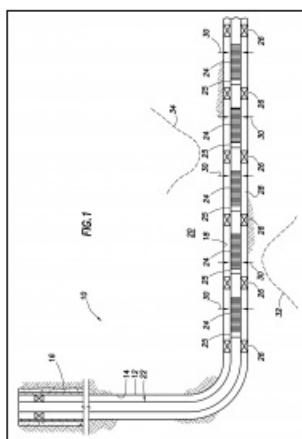
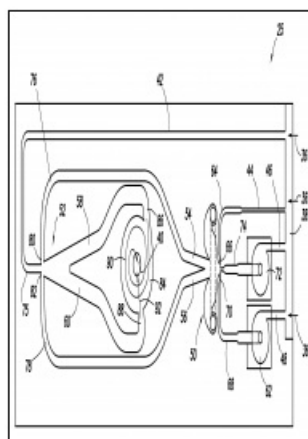
Title:
FLOW PATH CONTROL BASED
ON FLUID CHARACTERISTICS
TO THEREBY VARIABLY RESIST
FLOW IN A SUBTERRANEAN
WELL

Abstract:
Source: US2011042091A A
system for variably resisting
flow of a fluid composition can
include a flow passage and a
set of one or more branch
passages which intersect the
flow passage, whereby a
proportion of the fluid
composition diverted from the
passage to the set of branch
passages varies based on at
least one of a) viscosity of the
fluid composition, and b)
velocity of the fluid composition
in the flow passage. Another
variable flow resistance system
can include a flow path
selection device that selects
which of multiple flow paths a
majority of fluid flows through
from the device, based ...

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MICHAEL LINLEY ; GANO JOHN
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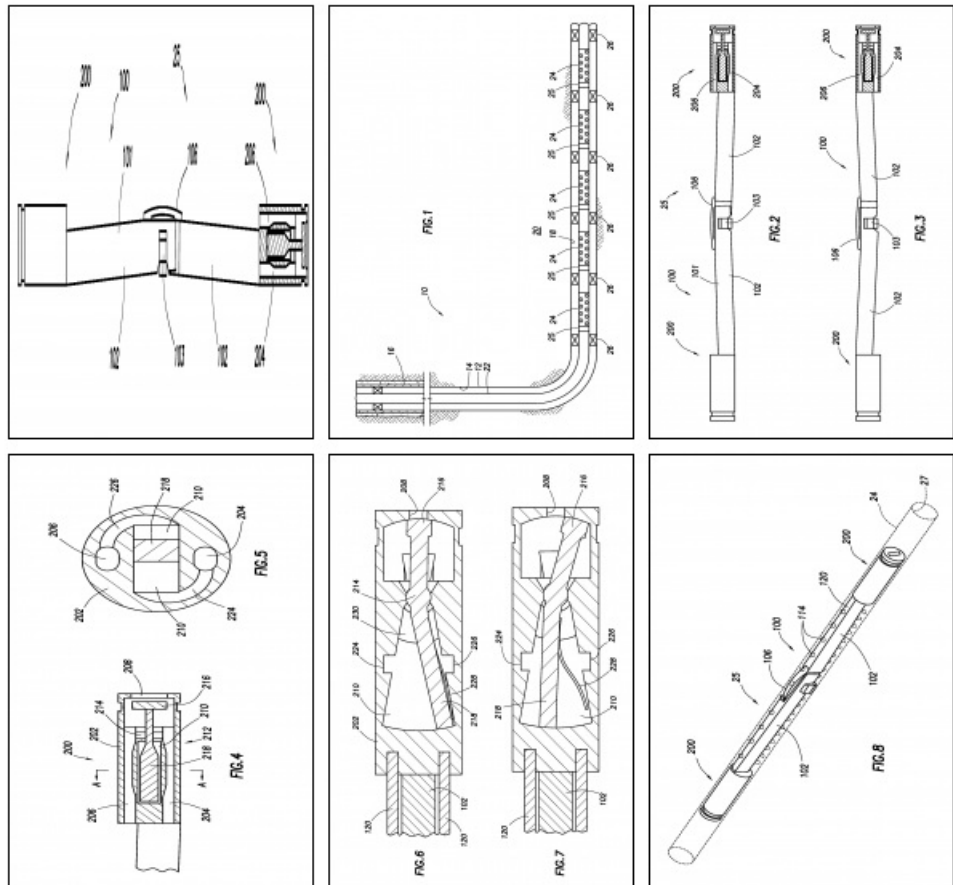
Title:
METHOD AND APPARATUS FOR
CONTROLLING FLUID FLOW
USING MOVABLE FLOW
DIVERTER ASSEMBLY

Abstract:

Source: US2011266001A
Apparatus and methods for controlling the flow of fluid, such as formation fluid, through an oilfield tubular positioned in a wellbore extending through a subterranean formation. Fluid flow is autonomously controlled in response to change in a fluid flow characteristic, such as density or viscosity. In one embodiment, a fluid diverter is movable between an open and closed position in response to fluid density change and operable to restrict fluid flow through a valve assembly inlet. The diverter can be pivotable, rotatable or otherwise movable in response to the fluid ...

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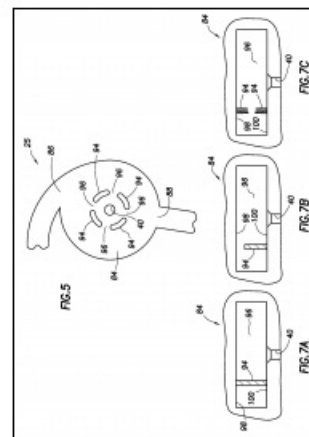
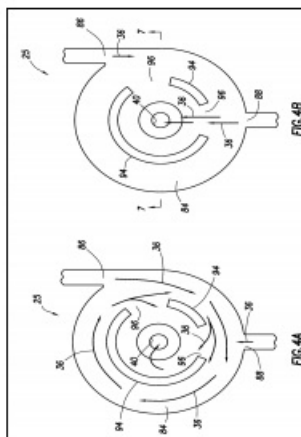
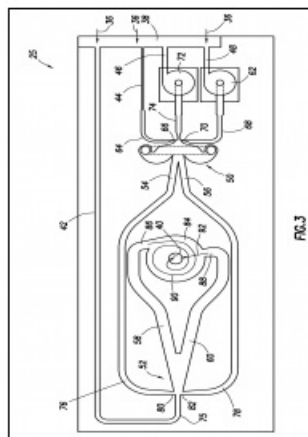
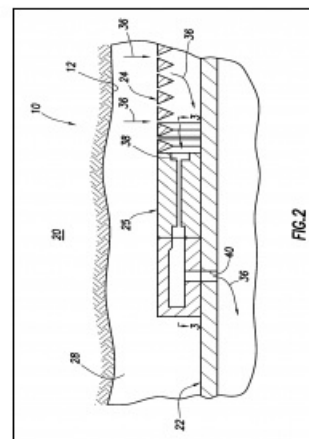
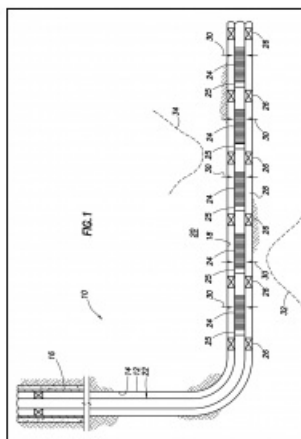
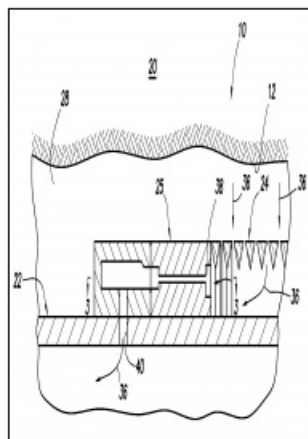
Title:
VARIABLE FLOW RESISTANCE
SYSTEM WITH CIRCULATION
INDUCING STRUCTURE
THEREIN TO VARIABLY RESIST
FLOW IN A SUBTERRANEAN
WELL

Abstract:

Source: US2011297385A A variable flow resistance system for use in a subterranean well can include a flow chamber having an outlet and at least one structure which resists a change in a direction of flow of a fluid composition toward the outlet. The fluid composition may enter the chamber in the direction of flow which changes based on a ratio of desired fluid to undesired fluid in the fluid composition. Another variable flow resistance system can include a flow chamber through which a fluid composition flows, the chamber having an inlet, an outlet, and a structure which impedes a change ...

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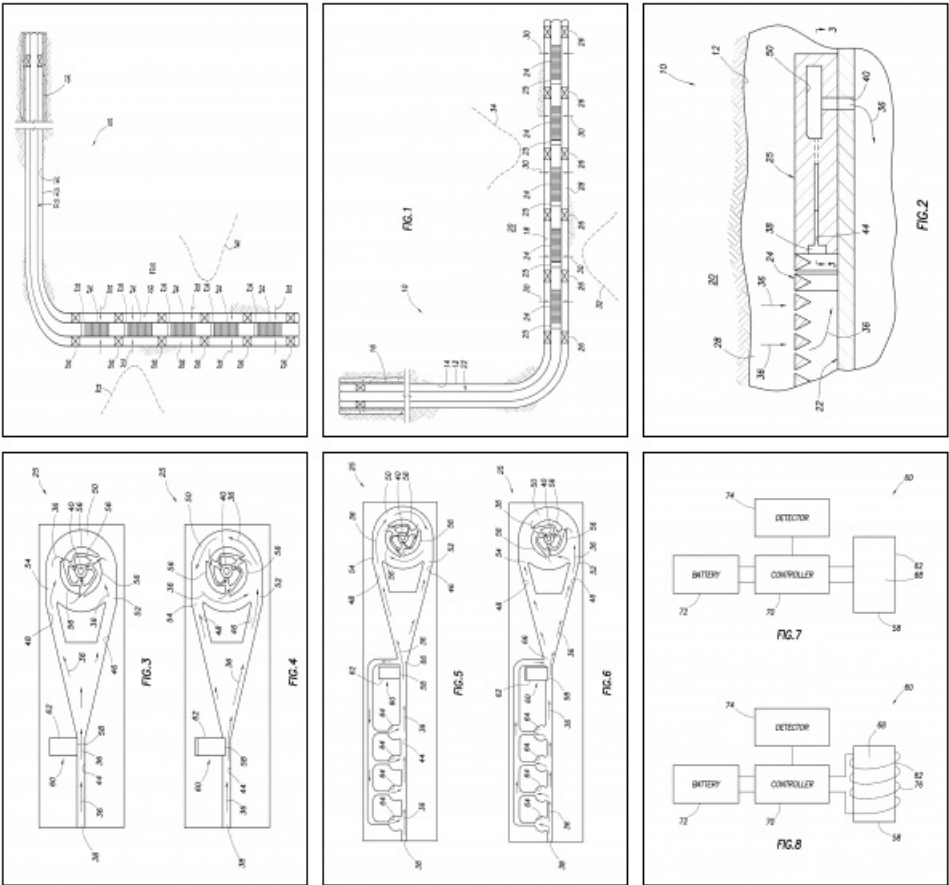
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Title:
SELECTIVELY VARIABLE FLOW
RESTRICTOR FOR USE IN A
SUBTERRANEAN WELL

Abstract:
Source: US2012255739A A variable flow resistance system for use with a subterranean well can include a flow chamber through which a fluid composition flows, the chamber having at least two inlets, and a flow resistance which varies depending on proportions of the fluid composition which flow into the chamber via the respective inlet flow paths, and an actuator which varies the proportions. The actuator may deflect the fluid composition toward one of the inlet flow paths. A method of variably controlling flow resistance in a well can include changing an orientation of a deflector relative to ...

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Title:

METHOD AND APPARATUS FOR CONTROLLING FLUID FLOW IN AN AUTONOMOUS VALVE USING A STICKY SWITCH

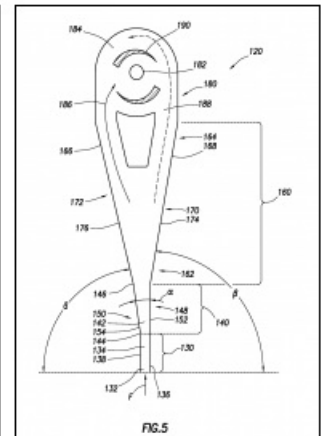
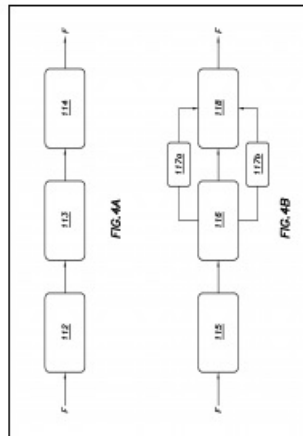
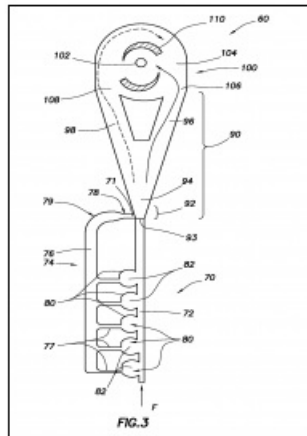
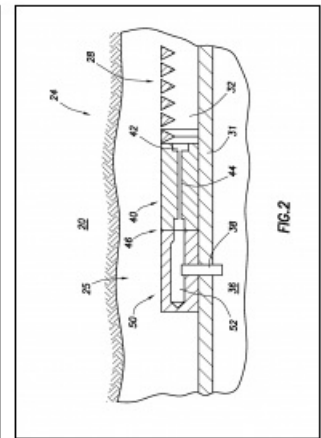
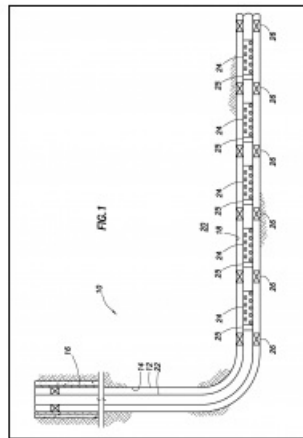
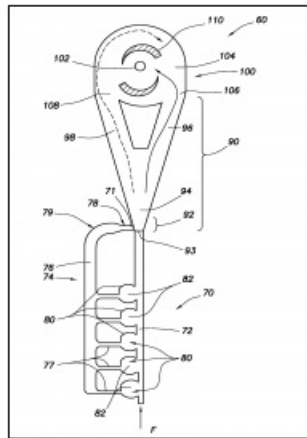
Abstract:

Source: US2012255740A

Apparatus and methods are described for autonomously controlling fluid flow in a tubular in a wellbore. A fluid is flowed through an inlet passageway into a biasing mechanism. A fluid flow distribution is established across the biasing mechanism. The fluid flow distribution is altered in response to a change in the fluid characteristic over time. In response, fluid flow through a downstream sticky switch assembly is altered, thereby altering fluid flow patterns in a downstream vortex assembly. The method selects based on a fluid characteristic, such as viscosity, ...

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Title:

SERIES CONFigureD VARIABLE
FLOW RESTRICTORS FOR USE
IN A SUBTERRANEAN WELL

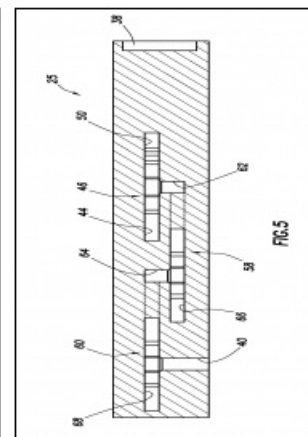
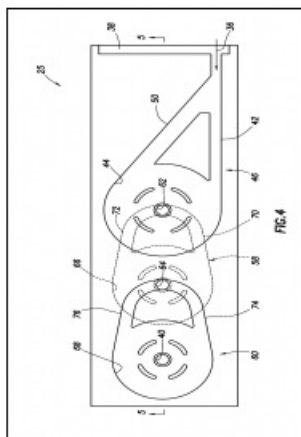
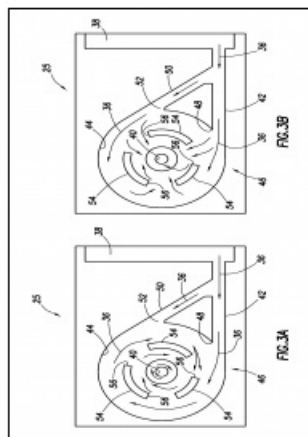
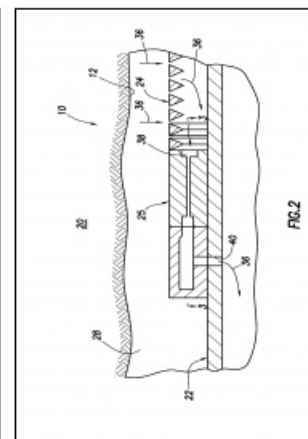
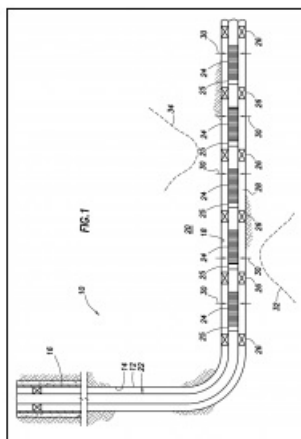
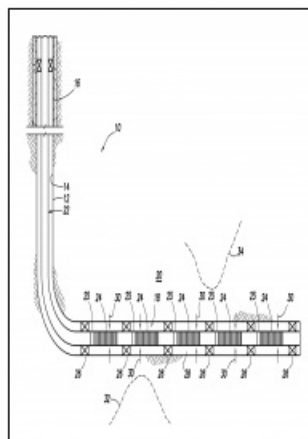
Abstract:

Source: US2012060624A A variable flow resistance system can include a vortex device, with resistance to flow of a fluid composition through the vortex device being dependent on a rotation of the fluid composition at an inlet to the vortex device. Another system can include a second vortex device which receives a fluid composition from an outlet of a first vortex device, a resistance to flow of the fluid composition through the second vortex device being dependent on a rotation of the fluid composition at the outlet. Another system can include a first vortex device which causes increased ...

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Title:
AUTONOMOUS FLUID CONTROL
ASSEMBLY HAVING A
MOVABLE, DENSITY-DRIVEN
DIVERTER FOR DIRECTING
FLUID FLOW IN A FLUID
CONTROL SYSTEM

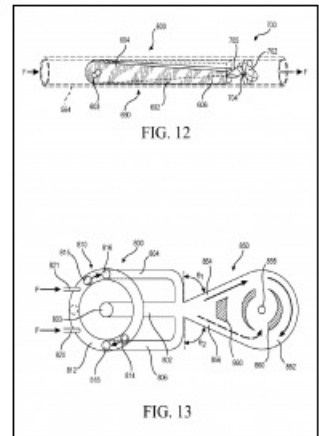
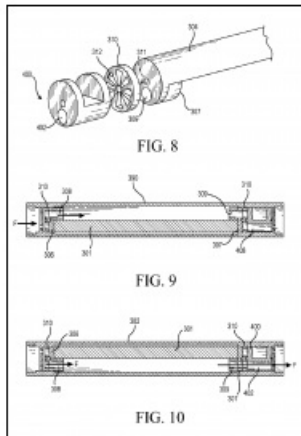
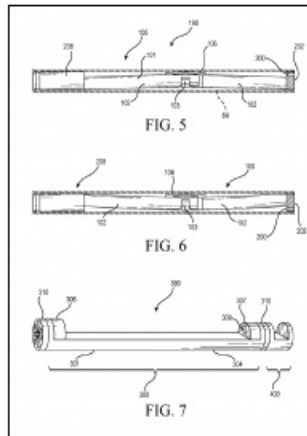
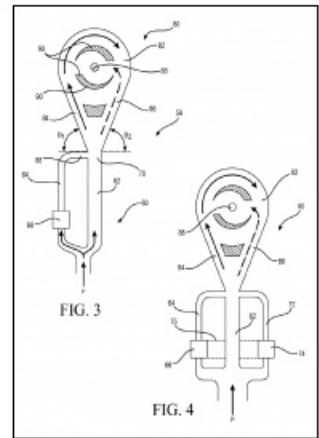
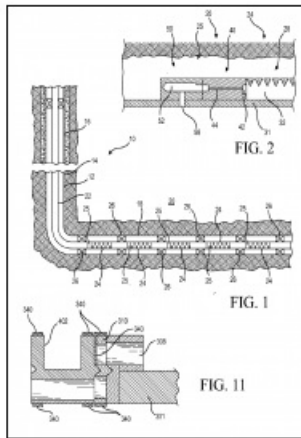
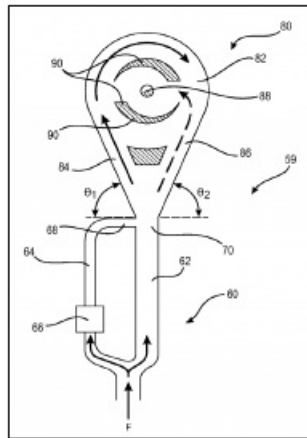
Abstract:

Source: US2014041731A An apparatus is presented for autonomously controlling fluid flow in a subterranean well, the fluid having a density which changes over time. An embodiment of the apparatus has a vortex chamber, a vortex outlet, and first and second inlets into the vortex chamber. Flow into the inlets is directed by a fluid control system which has a control passageway for directing fluid flow as it exits a primary passageway. A movable fluid diverter positioned in the control passageway moves in response to change in fluid density to restrict fluid flow through the control passageway. ...

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Title:

FLUID DISCRIMINATION FOR
USE WITH A SUBTERRANEAN
WELL

Abstract:

Source: US2013112424A A fluid discrimination system can include a fluid discriminator which selects through which of multiple outlet flow paths a fluid composition flows, the selection being based on a direction of flow of the fluid composition through the discriminator, and the direction being dependent on a fluid type in the fluid composition. Another fluid discriminator can include a structure which displaces in response to a fluid composition flow, whereby an outlet flow path of the fluid composition changes in response to a change in a ratio of fluids in the fluid composition. A method ...

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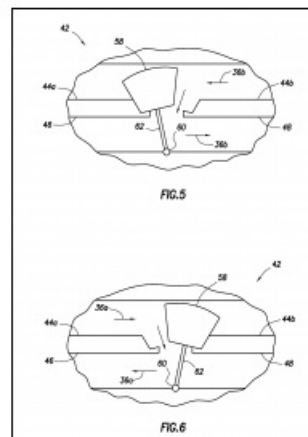
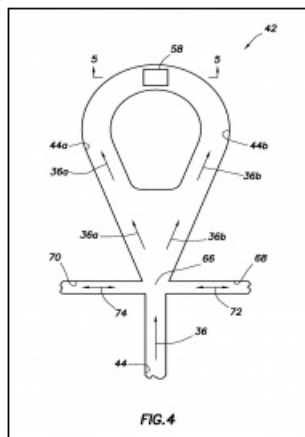
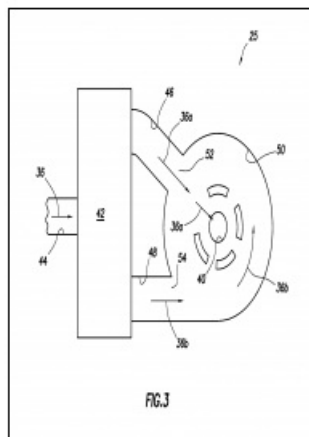
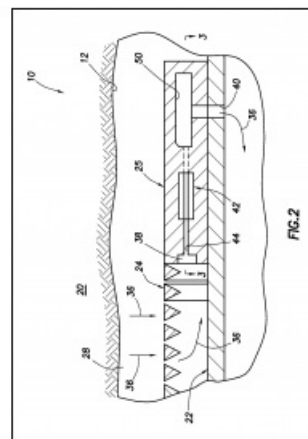
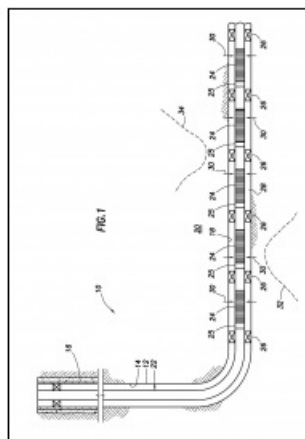
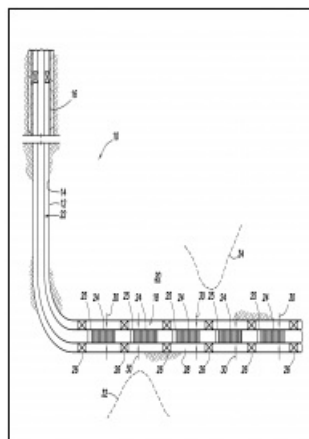
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; HALLIBURTON ENERGY
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; HALLIBURTON ENERGY
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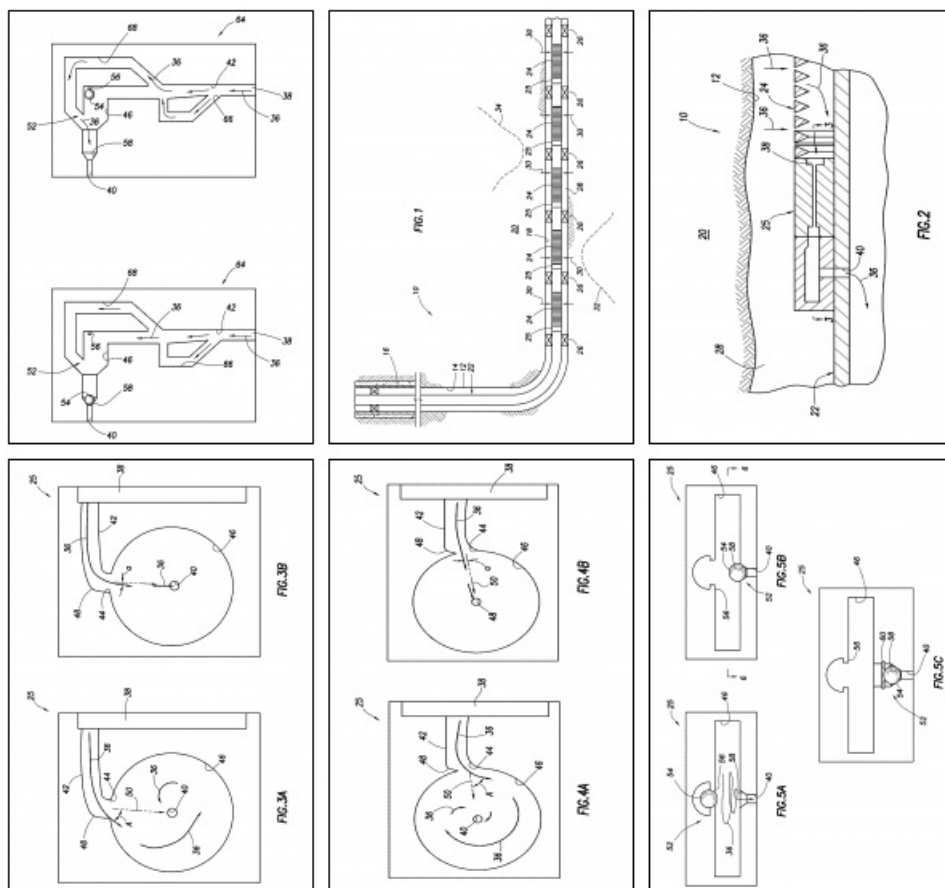
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Title:
SELF-RELEASING PLUG FOR
USE IN A SUBTERRANEAN WELL

Abstract:
Source: US2012061088A A flow control system for use in a subterranean well can include a flow chamber through which a fluid composition flows, and a plug which is released in response to an increase in a ratio of undesired fluid to desired fluid in the fluid composition. Another flow control system can include a flow chamber through which a fluid composition flows, a plug, and a structure which supports the plug, but which releases the plug in response to degrading of the structure by the fluid composition. Yet another flow control system can include a flow chamber through which a fluid ...

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