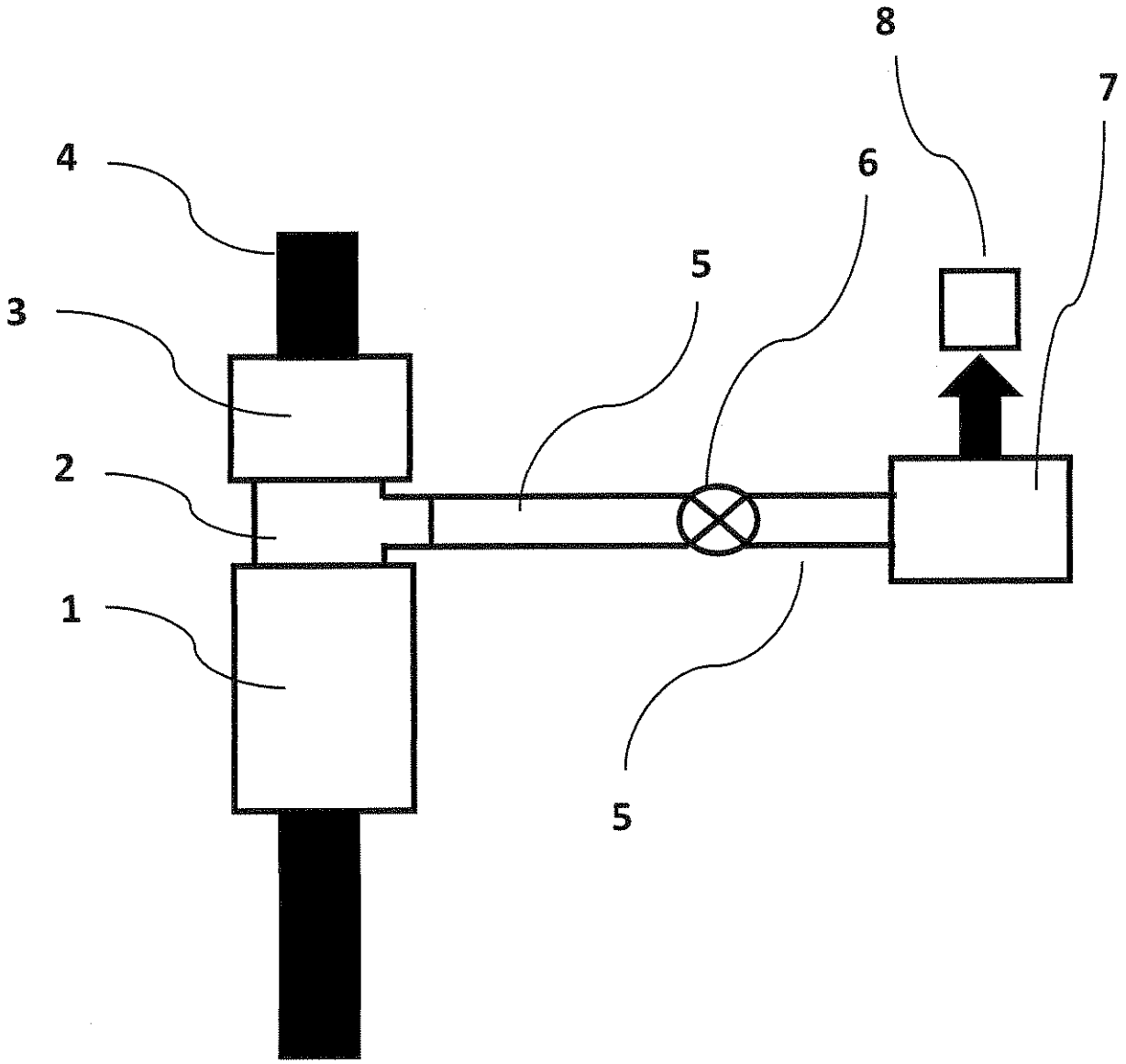


FIG 1

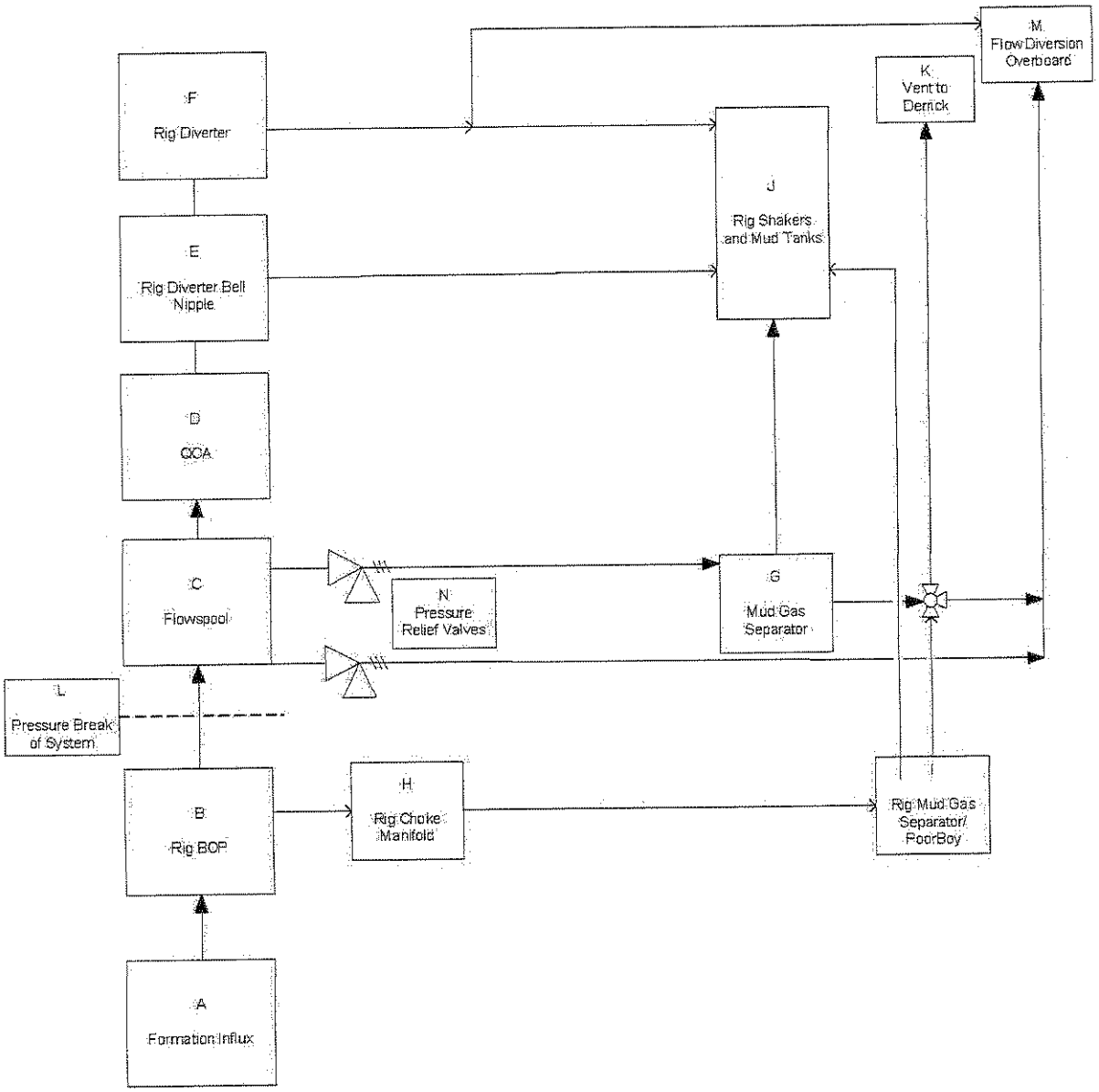

F
Rig Diverter
M
Flow Diversion
Overboard
K
Vent to
Derrick
J
Rig Shakers
and Mud Tanks
E
Rig Diverter Bell
Nipple
D
GOA
C
Flowspool
N
Pressure
Relief Valves
G
Mud Gas
Separator
L
Pressure Break
of System
B
Rig BOP
H
Rig Choke
Manifold
I
Rig Mud Gas
Separator/
PoorBoy
A
Formation Influx

FIG 2

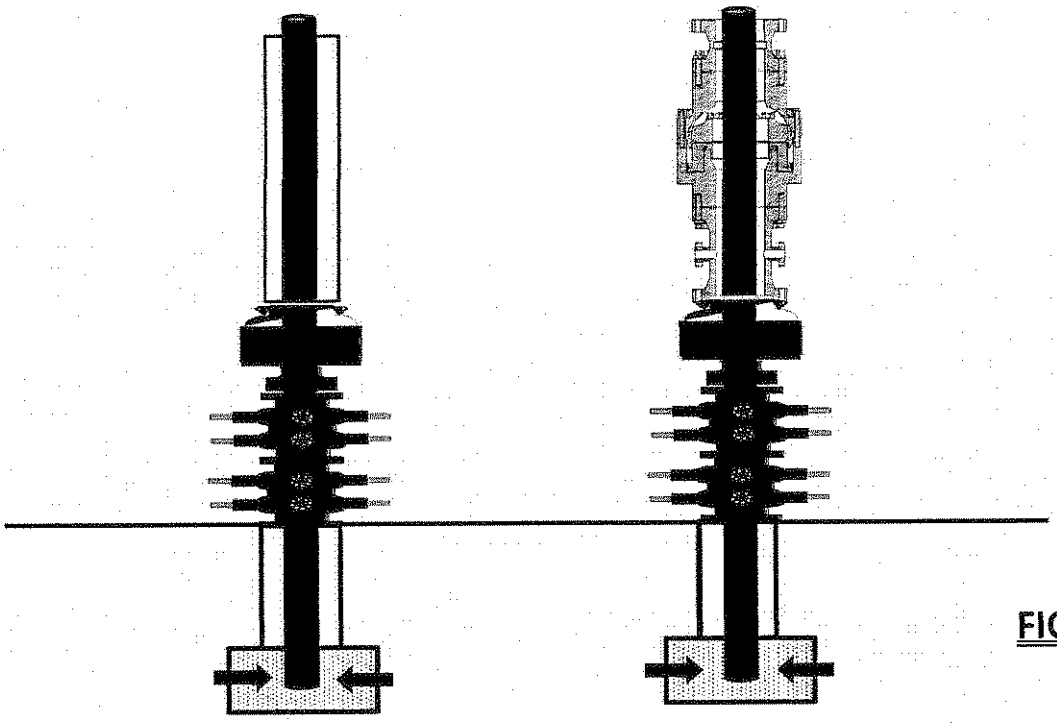


FIG 3a

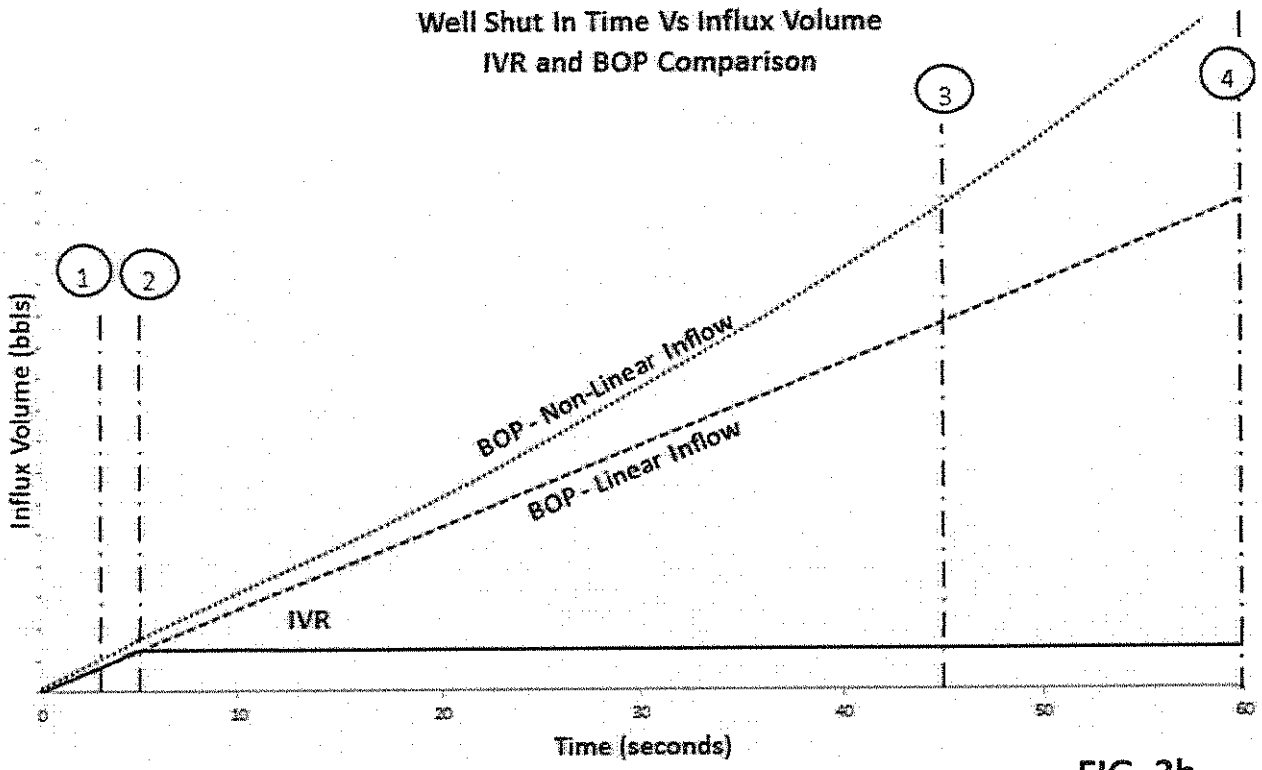

Well Shut In Time Vs Influx Volume
IVR and BOP Comparison
Influx Volume (bbls)
Time (seconds)
1
2
3
4
BOP - Non-Linear Inflow
BOP - Linear Inflow
IVR
0
10
20
30
40
50
60

FIG 3b

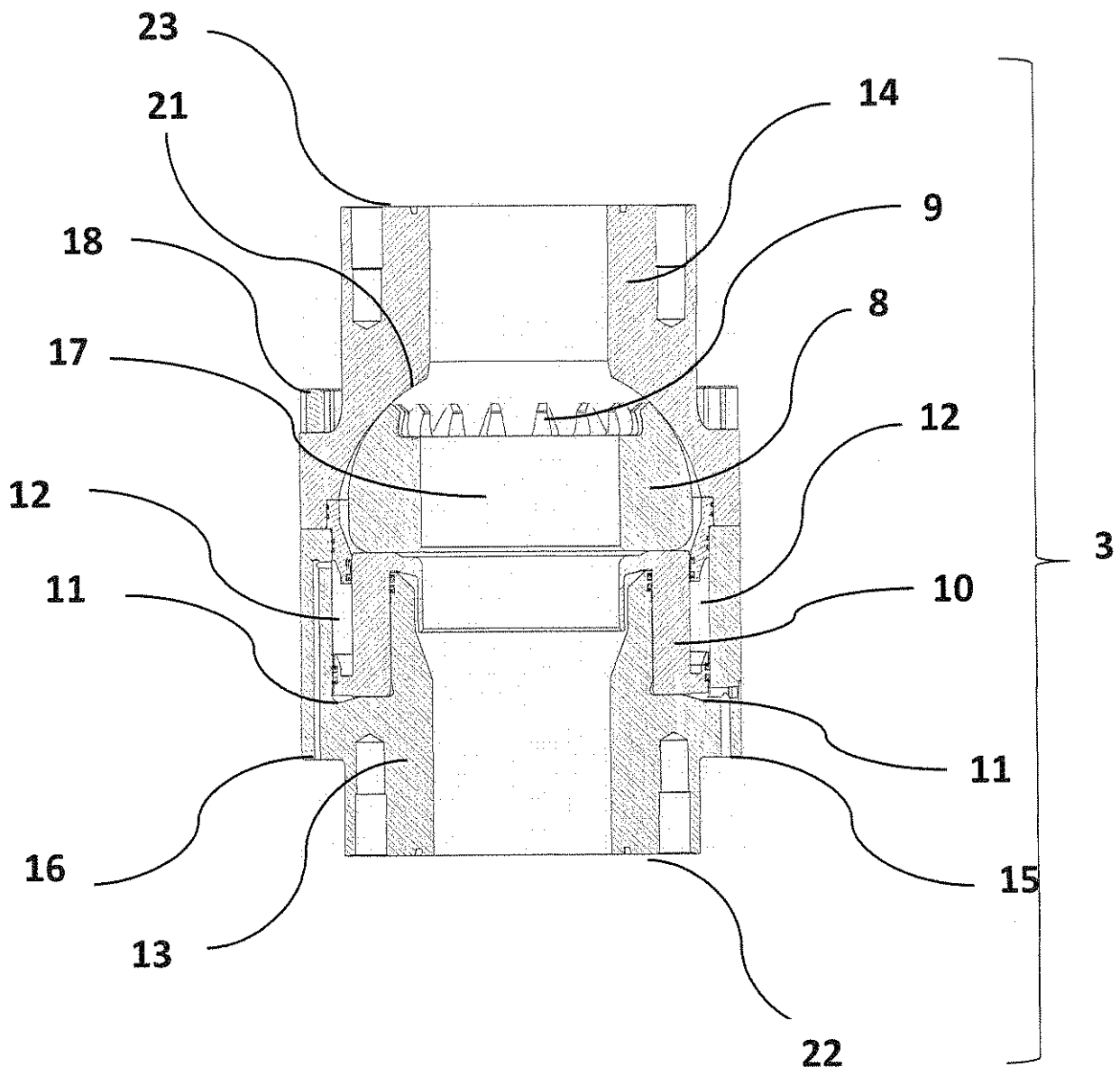


FIG 4

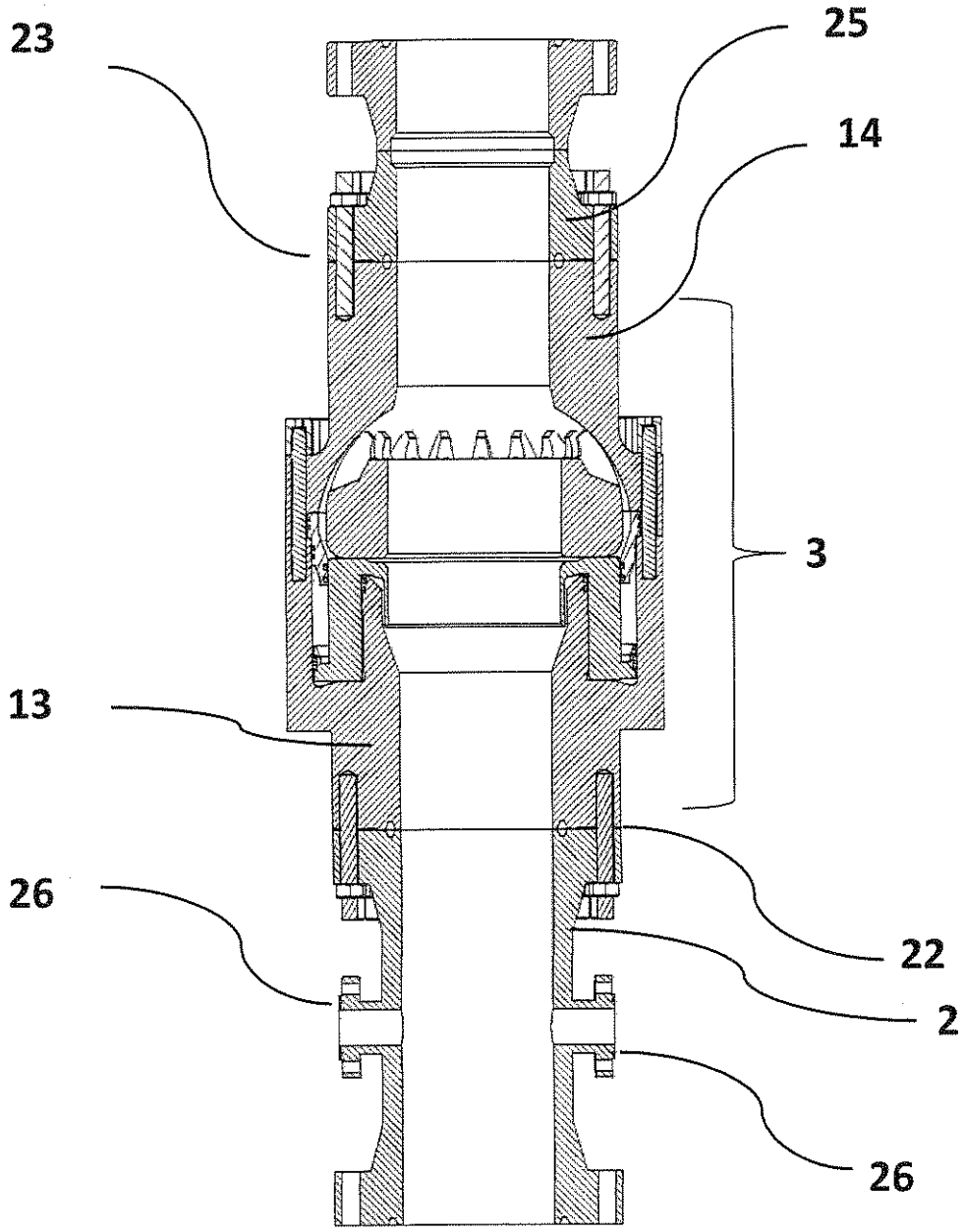


FIG 5

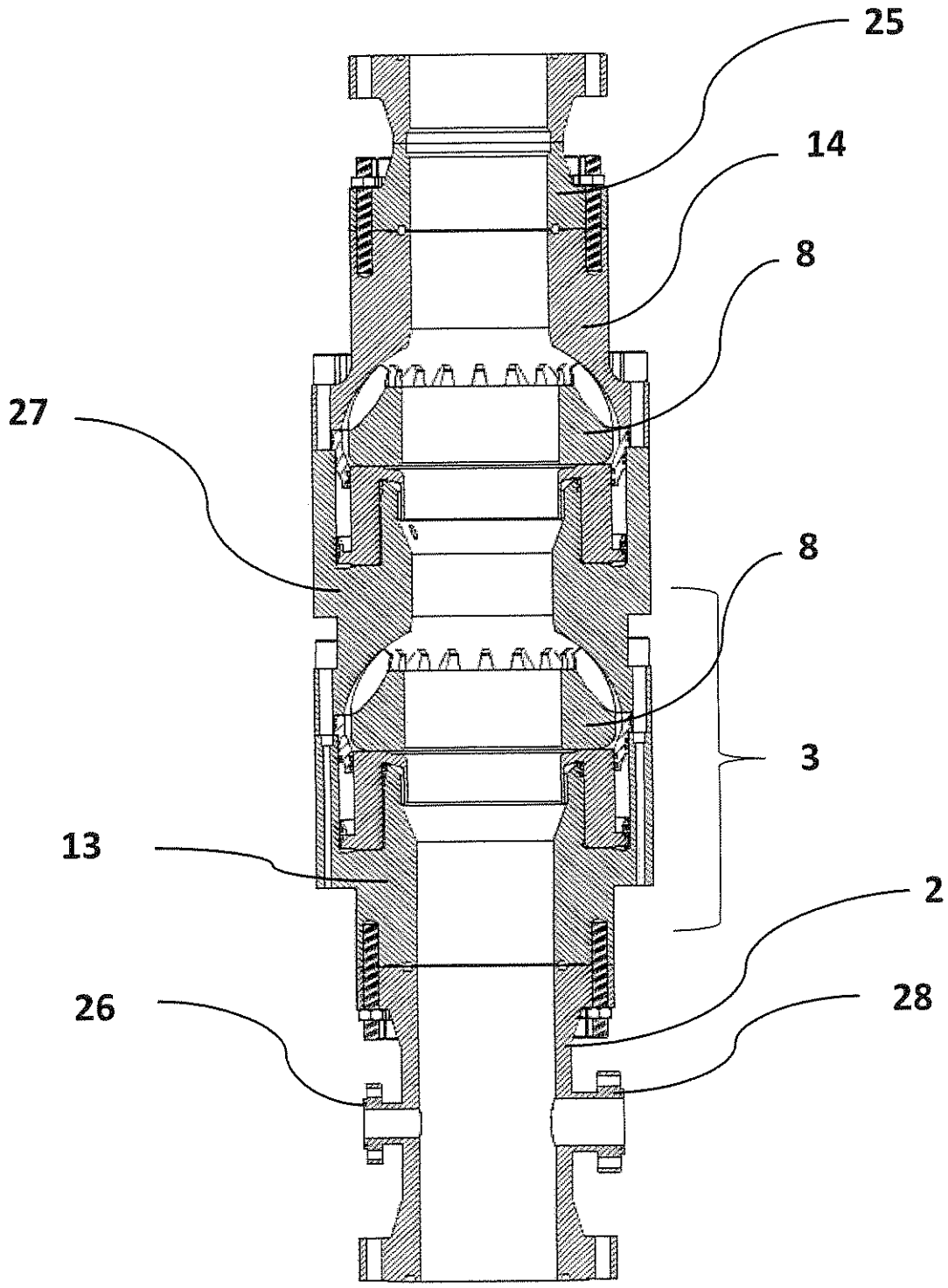


FIG 6

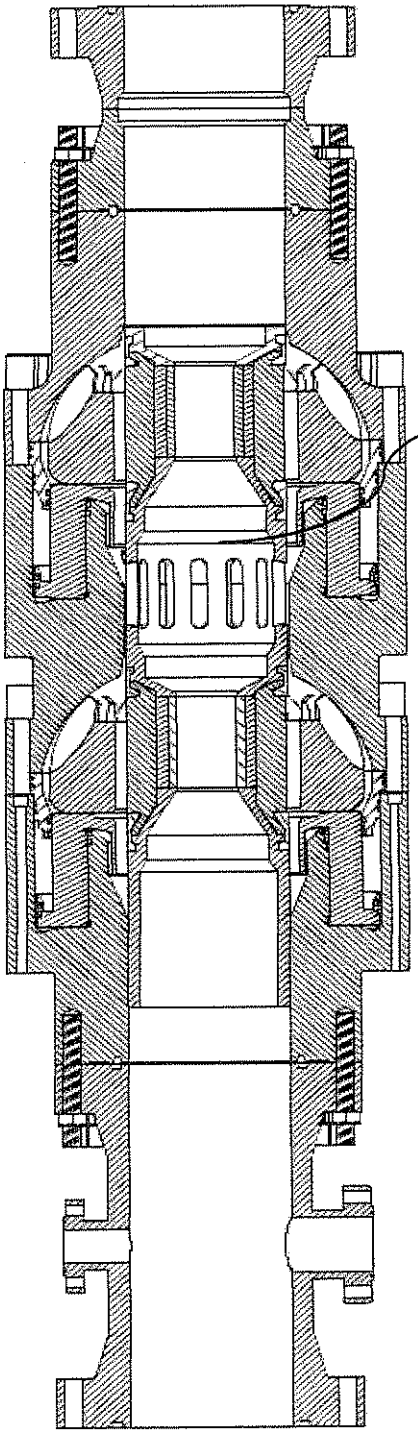


FIG 7a

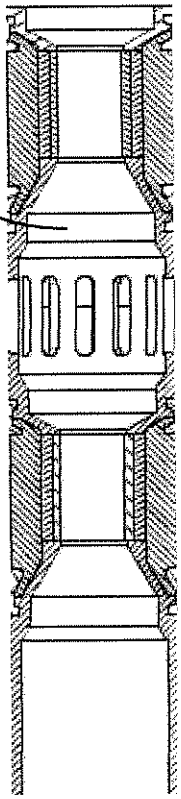


FIG 7b

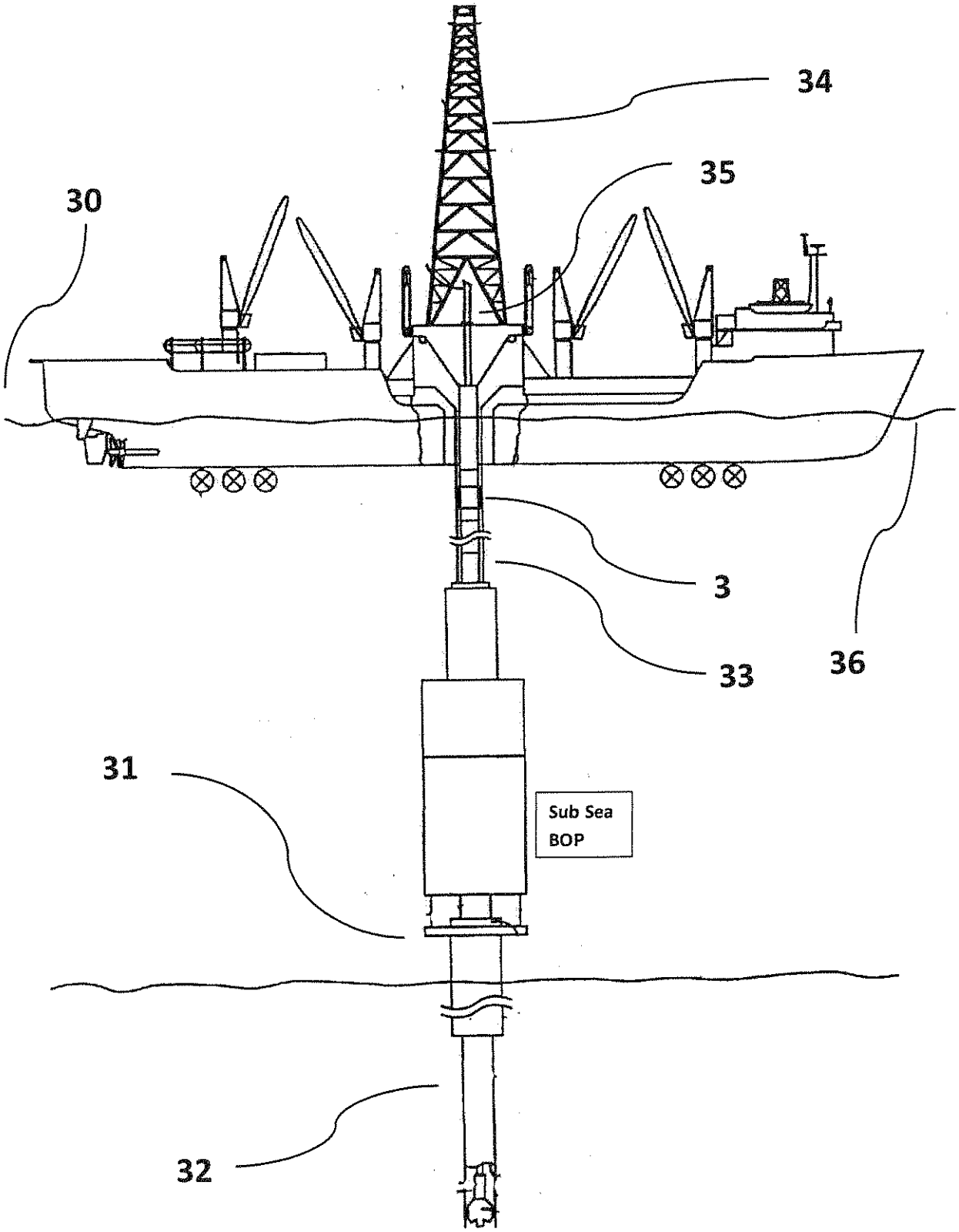


FIG 8

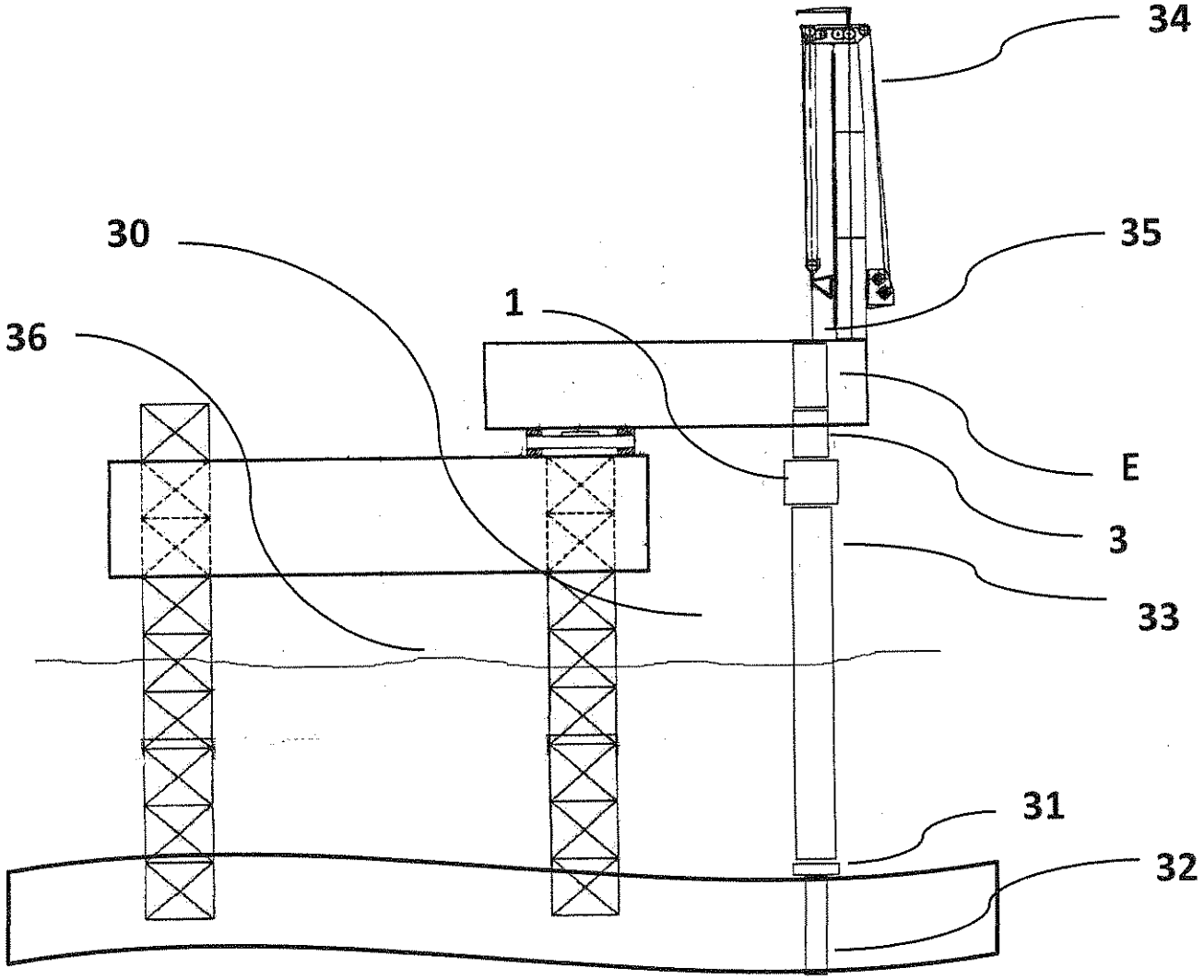


FIG 9

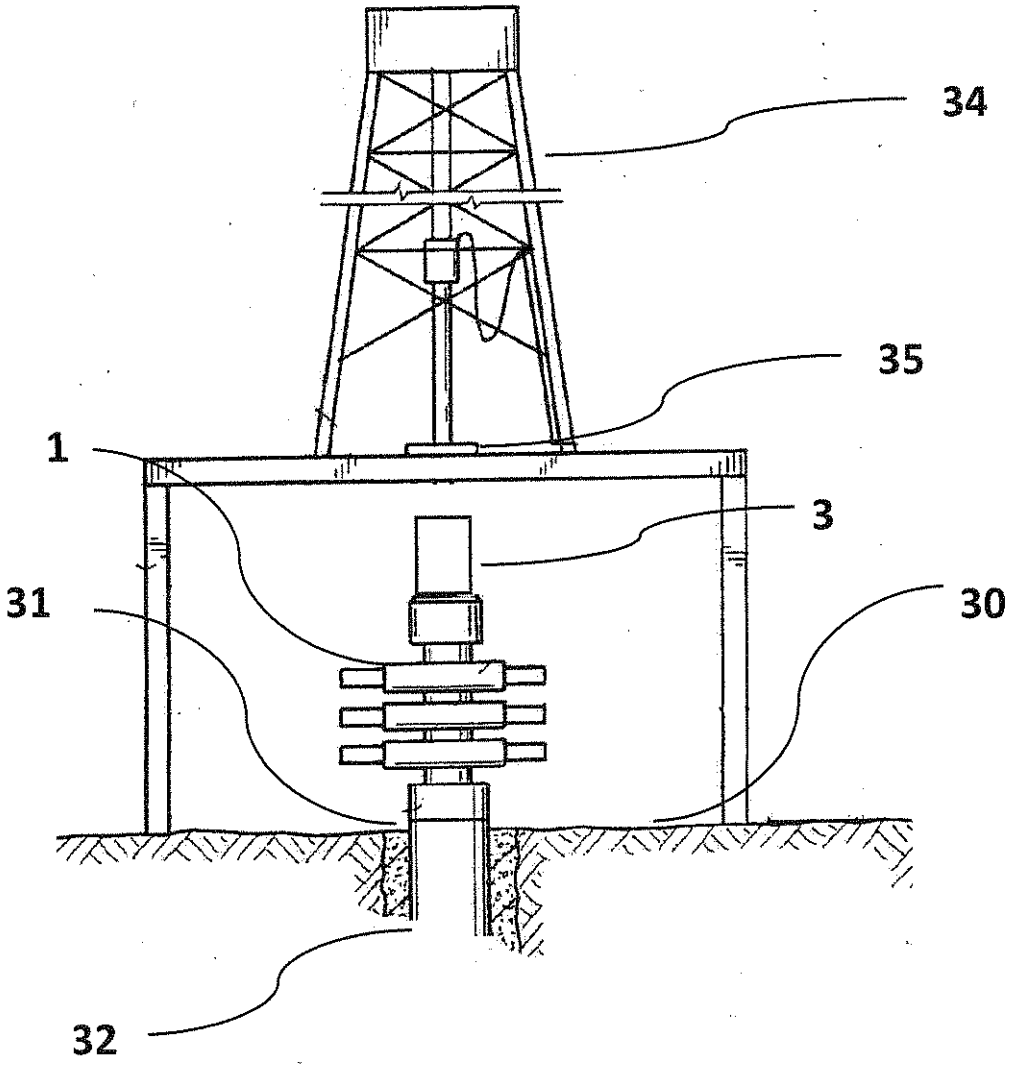


FIG 10