Figure 1
(Background Art)

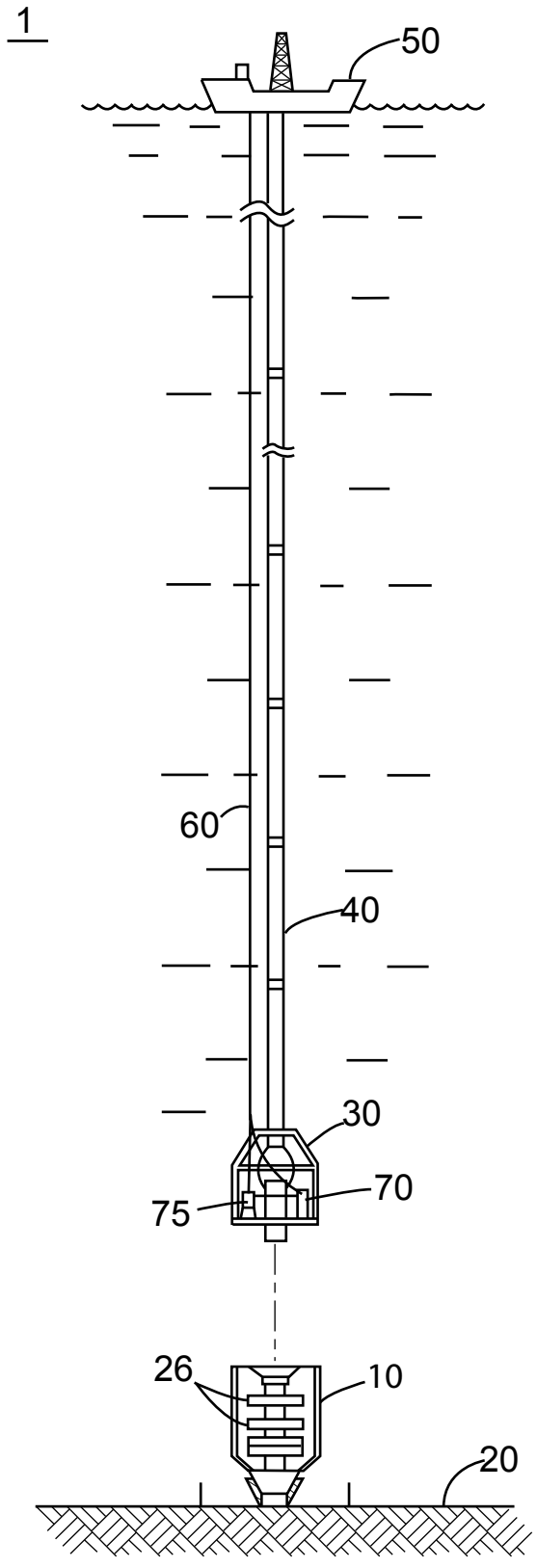


Figure 2a

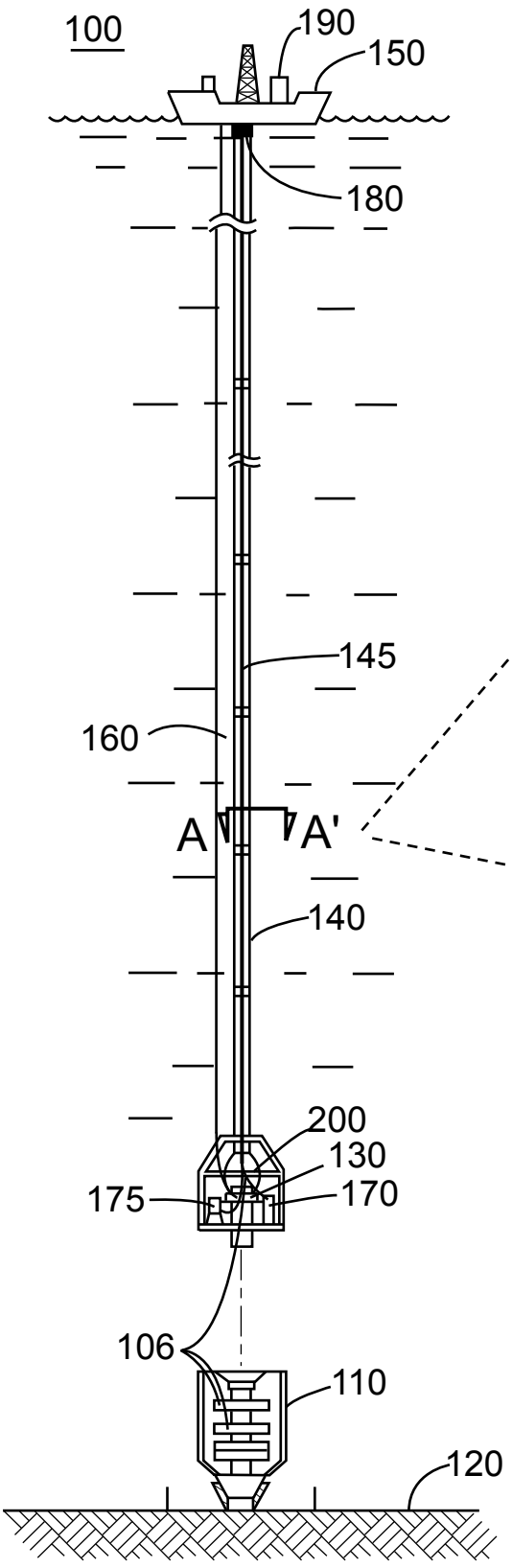


Figure 2b

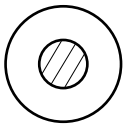
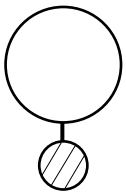


Figure 2c



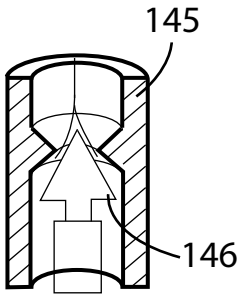


Figure 3a

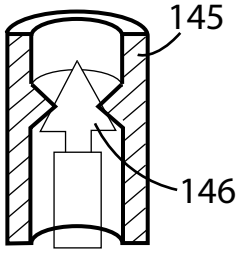


Figure 3b

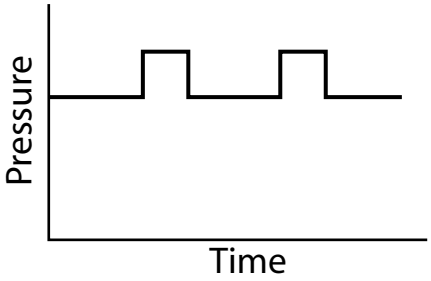


Figure 3c

Figure 4

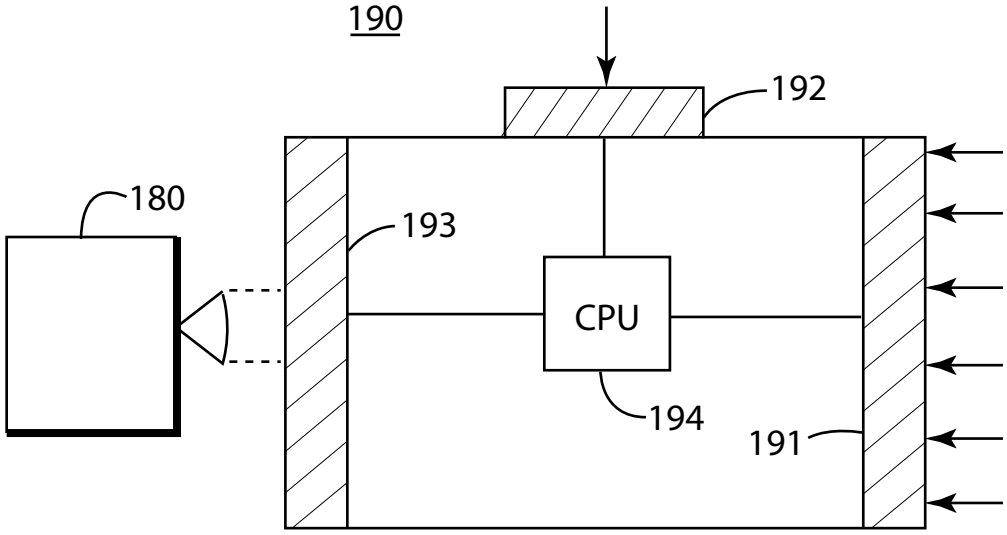


Figure 5

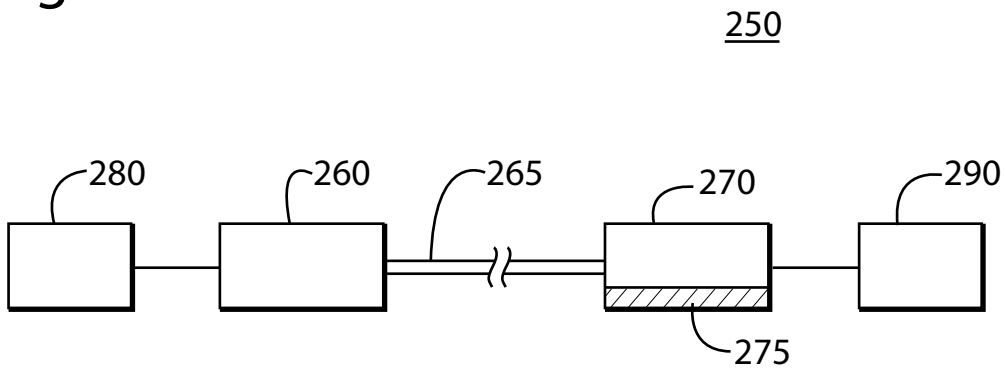
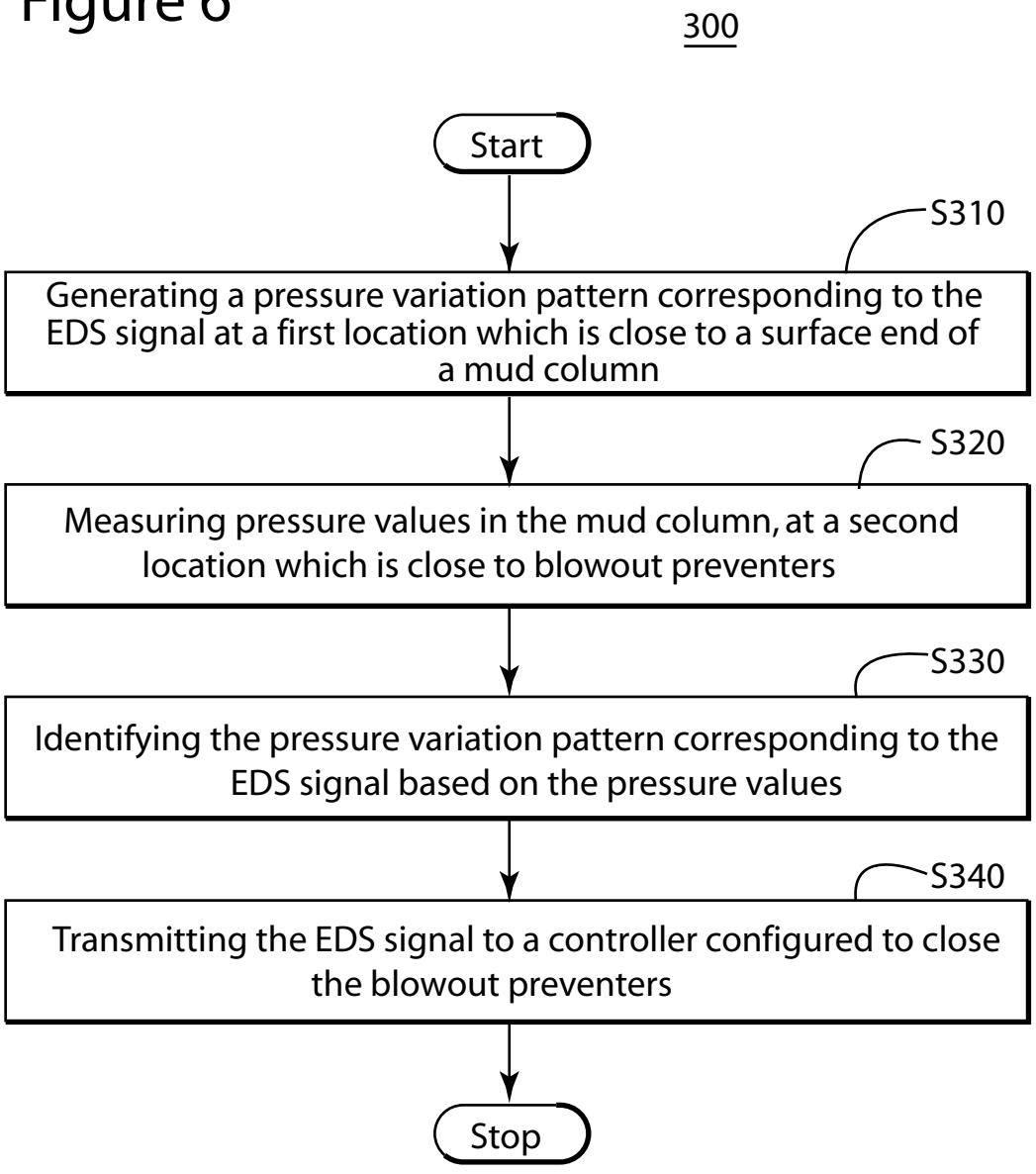


Figure 6


300
Start
S310
Generating a pressure variation pattern corresponding to the EDS signal at a first location which is close to a surface end of a mud column
S320
Measuring pressure values in the mud column, at a second location which is close to blowout preventers
S330
Identifying the pressure variation pattern corresponding to the EDS signal based on the pressure values
S340
Transmitting the EDS signal to a controller configured to close the blowout preventers
Stop