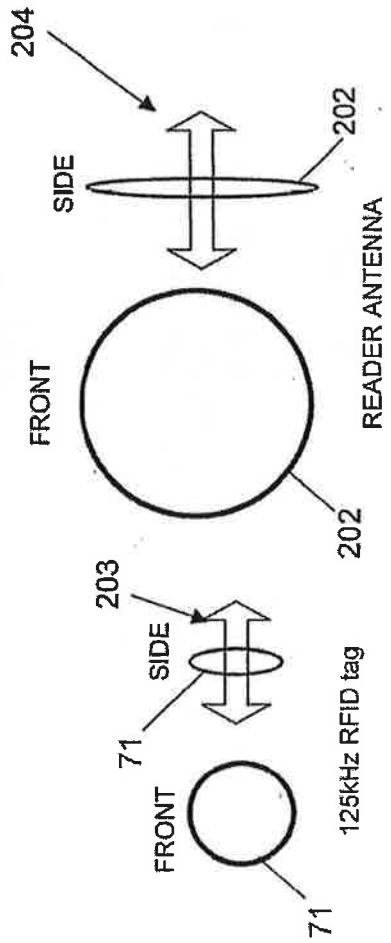


FIG. 1

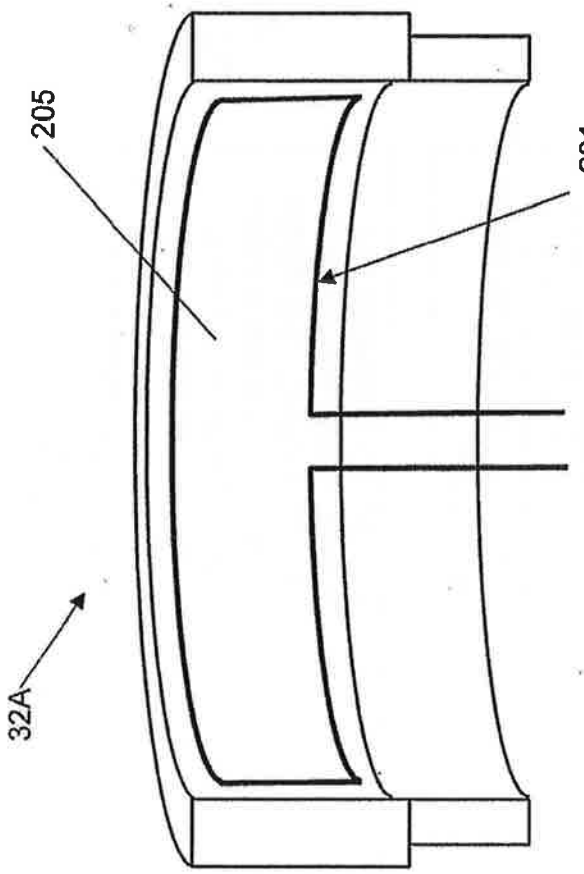


FIG. 2

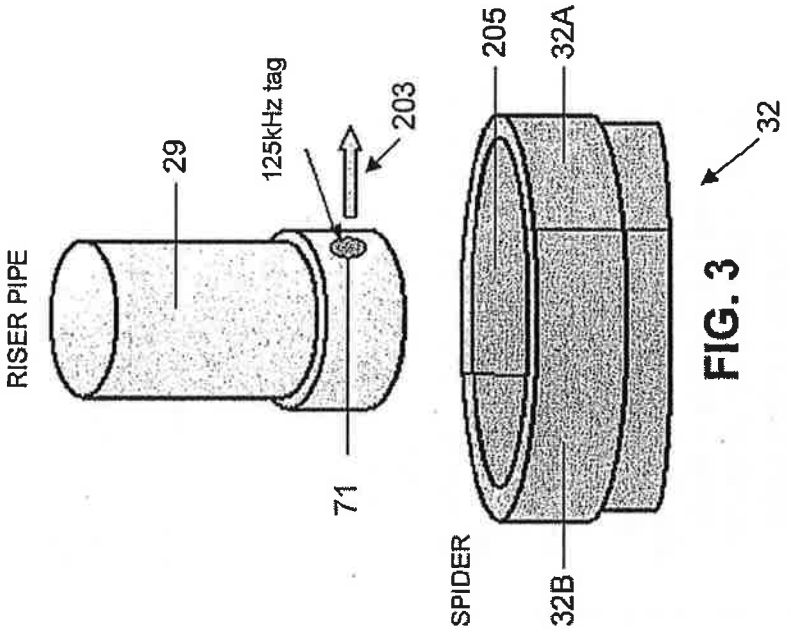
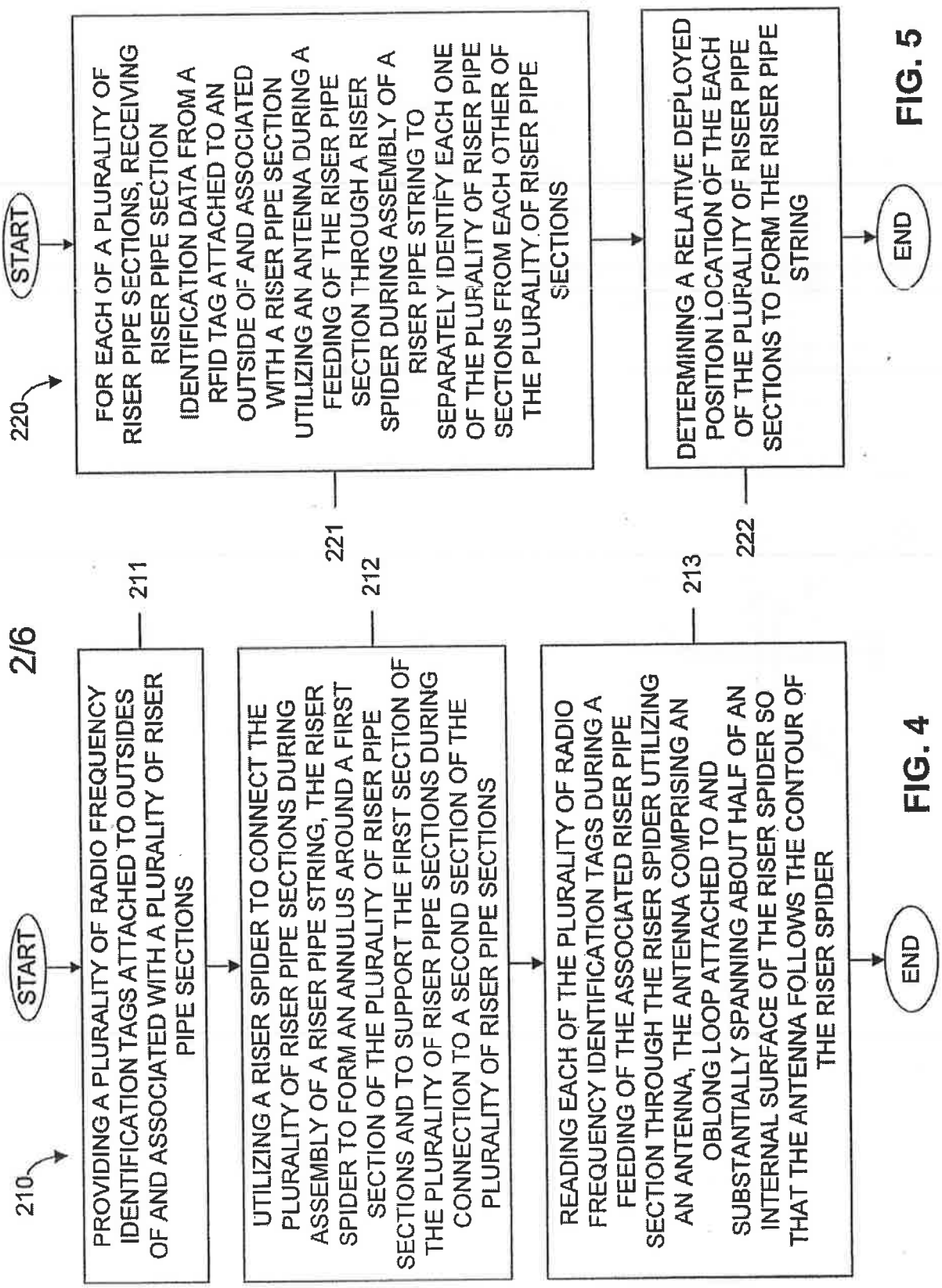


FIG. 3


210
START
PROVIDING A PLURALITY OF RADIO FREQUENCY IDENTIFICATION TAGS ATTACHED TO OUTSIDES OF AND ASSOCIATED WITH A PLURALITY OF RISER PIPE SECTIONS
211
UTILIZING A RISER SPIDER TO CONNECT THE PLURALITY OF RISER PIPE SECTIONS DURING ASSEMBLY OF A RISER PIPE STRING, THE RISER SPIDER TO FORM AN ANNULUS AROUND A FIRST SECTION OF THE PLURALITY OF RISER PIPE SECTIONS AND TO SUPPORT THE FIRST SECTION OF THE PLURALITY OF RISER PIPE SECTIONS DURING CONNECTION TO A SECOND SECTION OF THE PLURALITY OF RISER PIPE SECTIONS
212
READING EACH OF THE PLURALITY OF RADIO FREQUENCY IDENTIFICATION TAGS DURING A FEEDING OF THE ASSOCIATED RISER PIPE SECTION THROUGH THE RISER SPIDER UTILIZING AN ANTENNA, THE ANTENNA COMPRISING AN OBLONG LOOP ATTACHED TO AND SUBSTANTIALLY SPANNING ABOUT HALF OF AN INTERNAL SURFACE OF THE RISER SPIDER SO THAT THE ANTENNA FOLLOWS THE CONTOUR OF THE RISER SPIDER
213
END
2/6
FIG. 4
220
START
FOR EACH OF A PLURALITY OF RISER PIPE SECTIONS, RECEIVING RISER PIPE SECTION IDENTIFICATION DATA FROM A RFID TAG ATTACHED TO AN OUTSIDE OF AND ASSOCIATED WITH A RISER PIPE SECTION UTILIZING AN ANTENNA DURING A FEEDING OF THE RISER PIPE SECTION THROUGH A RISER SPIDER DURING ASSEMBLY OF A RISER PIPE STRING TO SEPARATELY IDENTIFY EACH ONE OF THE PLURALITY OF RISER PIPE SECTIONS FROM EACH OTHER OF THE PLURALITY OF RISER PIPE SECTIONS
221
DETERMINING A RELATIVE DEPLOYED POSITION LOCATION OF THE EACH OF THE PLURALITY OF RISER PIPE SECTIONS TO FORM THE RISER PIPE STRING
222
END
FIG. 5

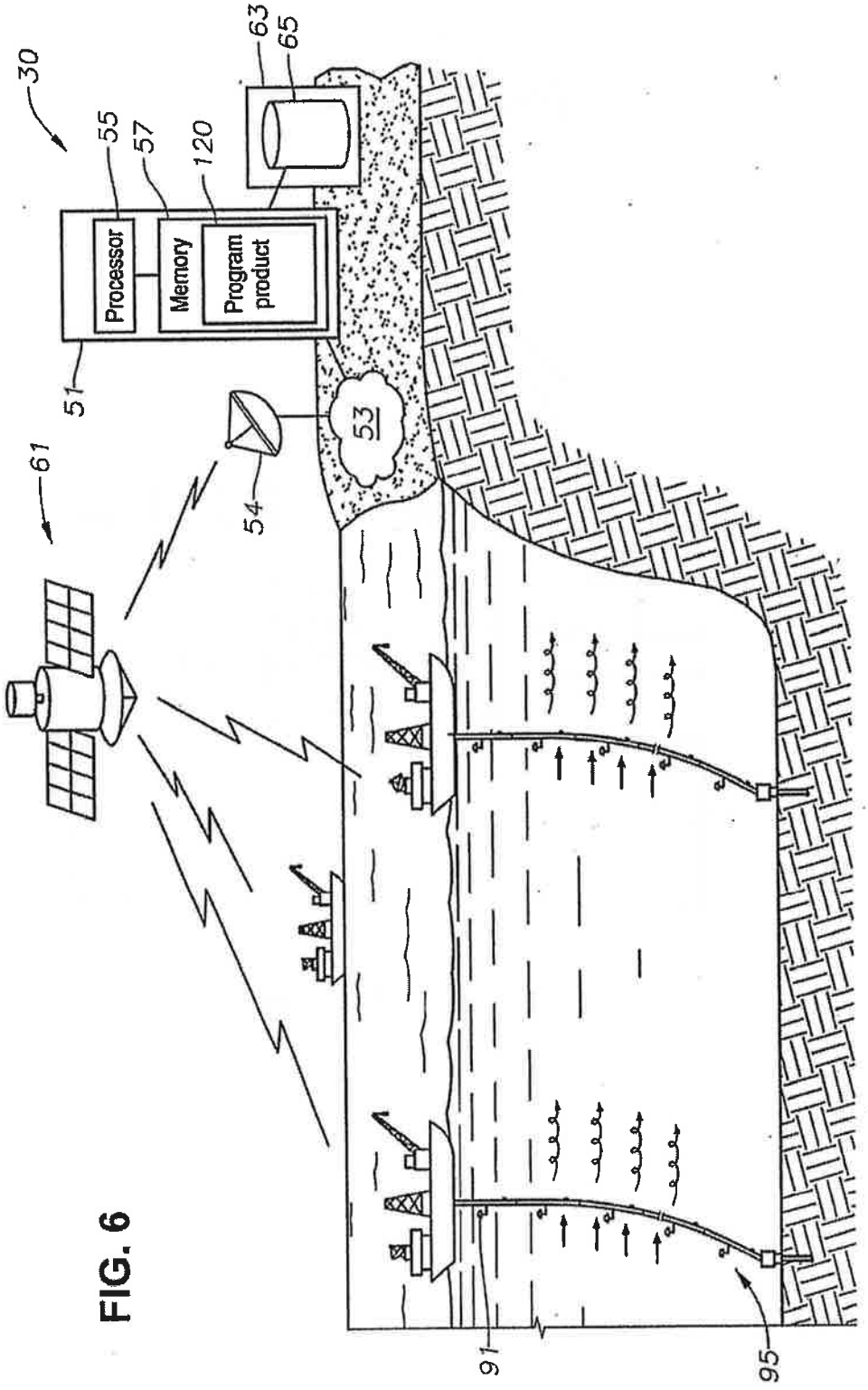

30
55
57
120
63
65
Processor
Memory
Program product
51
53
54
61
91
95

FIG. 6

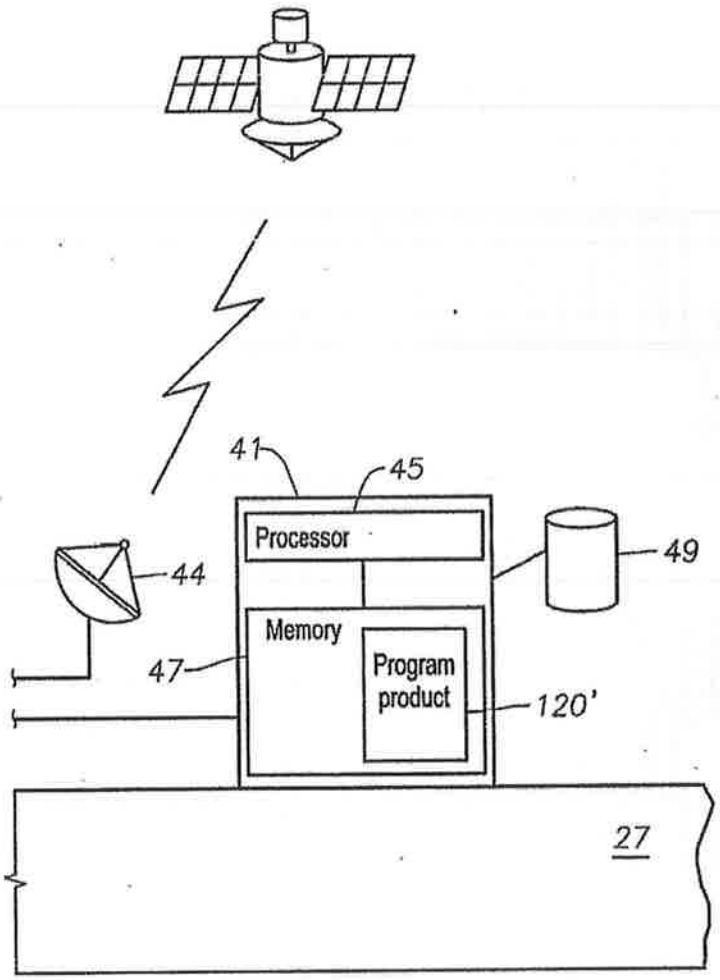


FIG. 7A

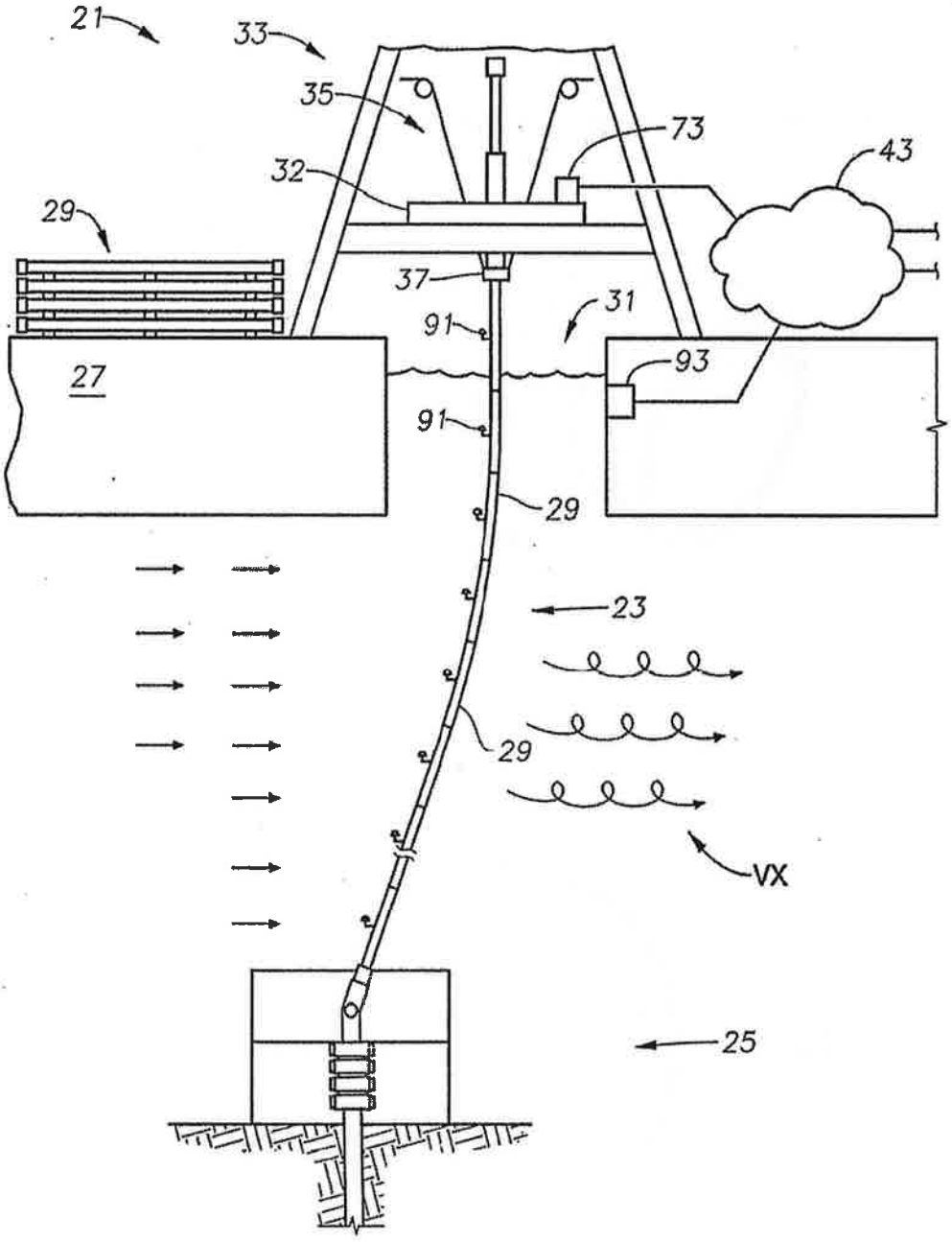


FIG. 7B

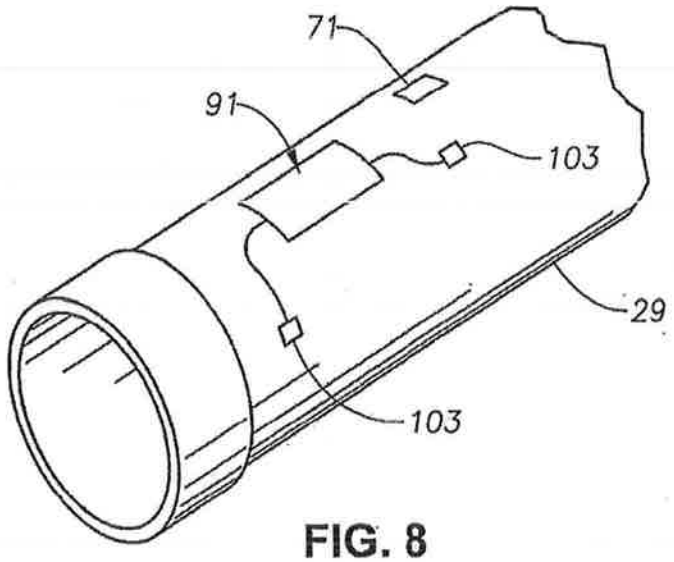


FIG. 8

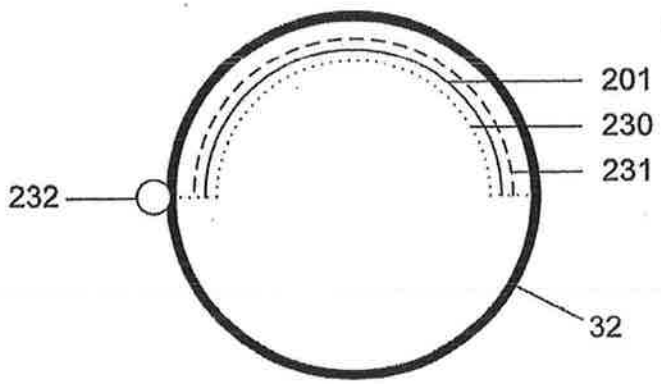


FIG. 9