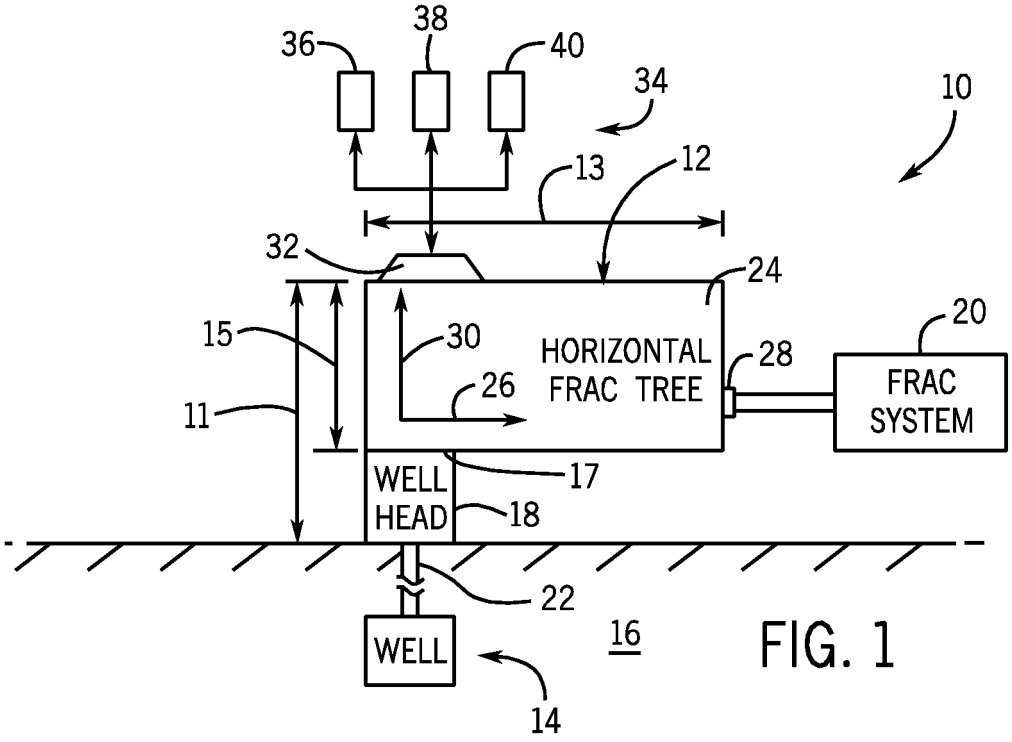

36
38
40
34
10
13
12
32
24
15
30
HORIZONTAL
FRAC TREE
28
20
FRAC
SYSTEM
11
26
WELL
HEAD
17
18
22
WELL
16
14

FIG. 1

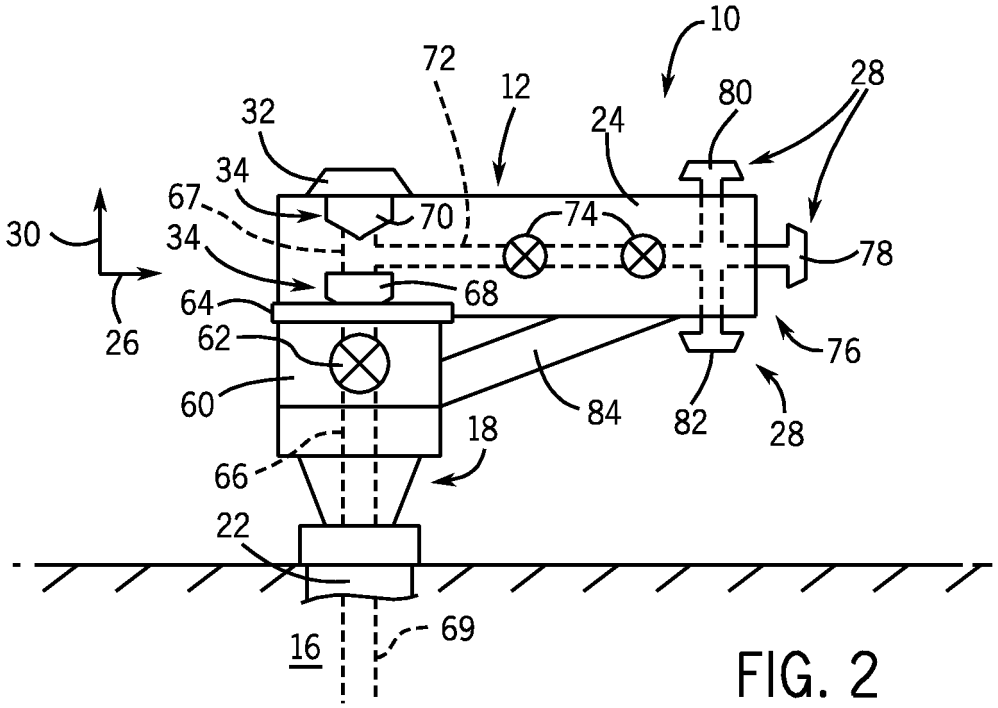
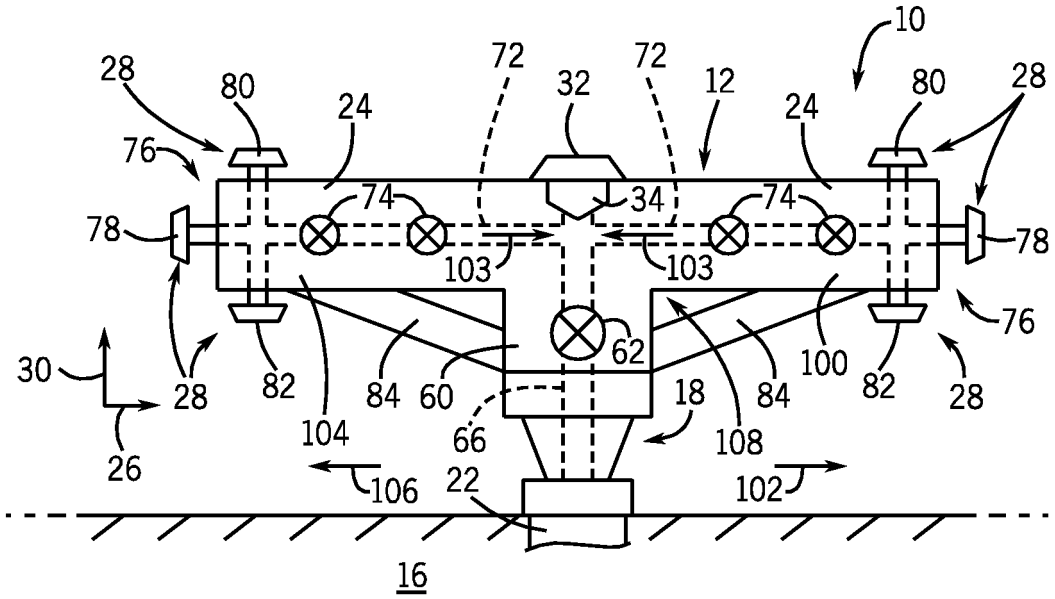

10
72
12
28
80
32
24
34
67
70
74
30
34
78
68
64
26
62
76
60
84
82
28
18
66
22
69
16

FIG. 2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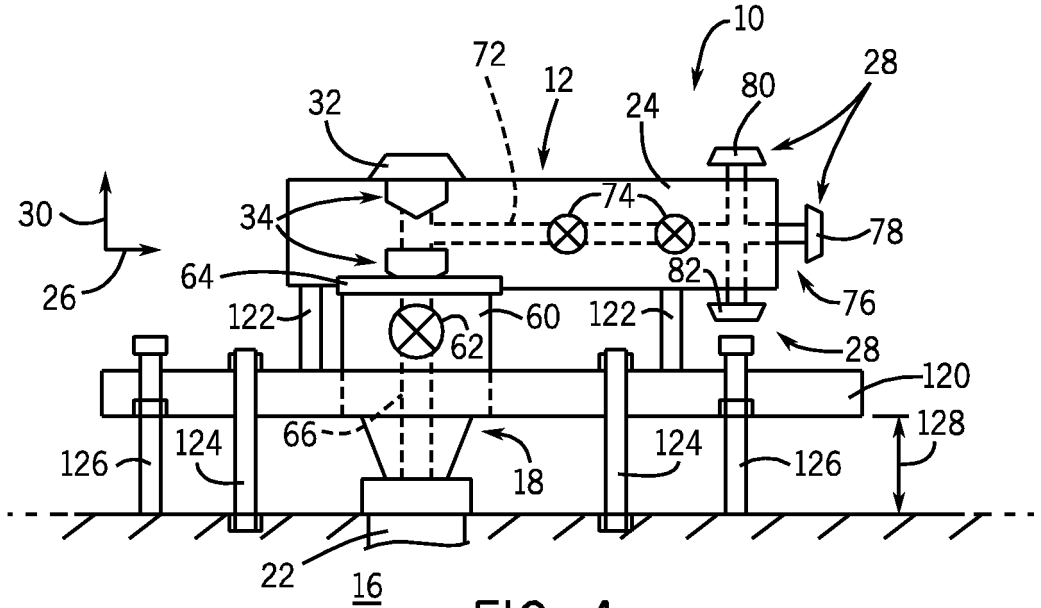
28
80
72
32
72
12
24
80
28
76
24
74
34
74
78
78
103
103
76
62
30
28
82
84
60
18
84
100
82
28
26
104
66
108
106
22
102
16

FIG. 3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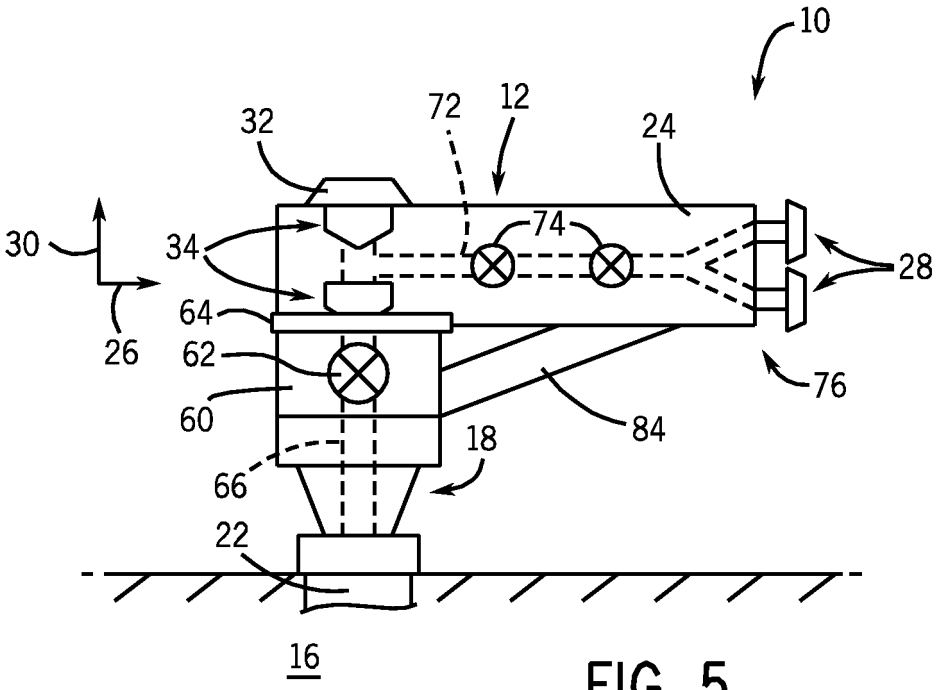
72
12
28
80
32
24
30
34
74
78
64
82
26
122
60
122
76
62
28
120
128
66
124
124
126
126
18
22
16

FIG. 4


10
12
72
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24
30
34
74
28
64
26
62
76
60
84
18
66
22
16

FIG. 5

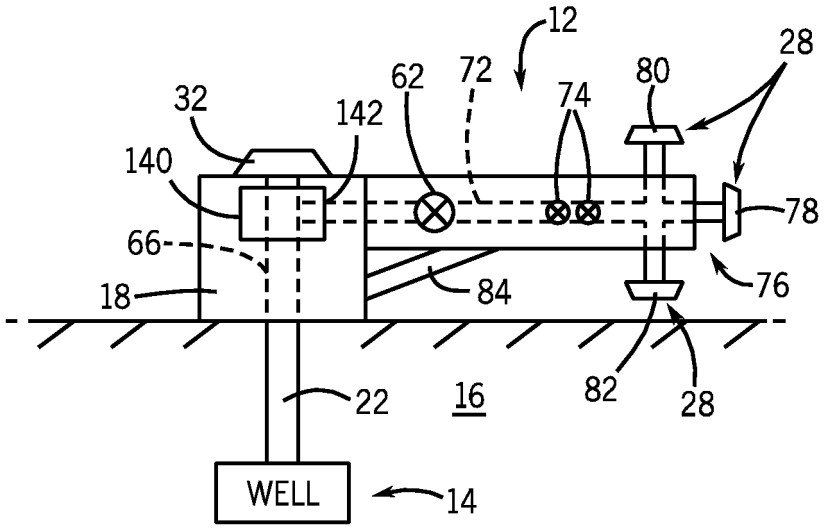
12
28
62
72
80
32
142
74
140
78
66
76
18
84
22
16
82
28
WELL
14

FIG. 6