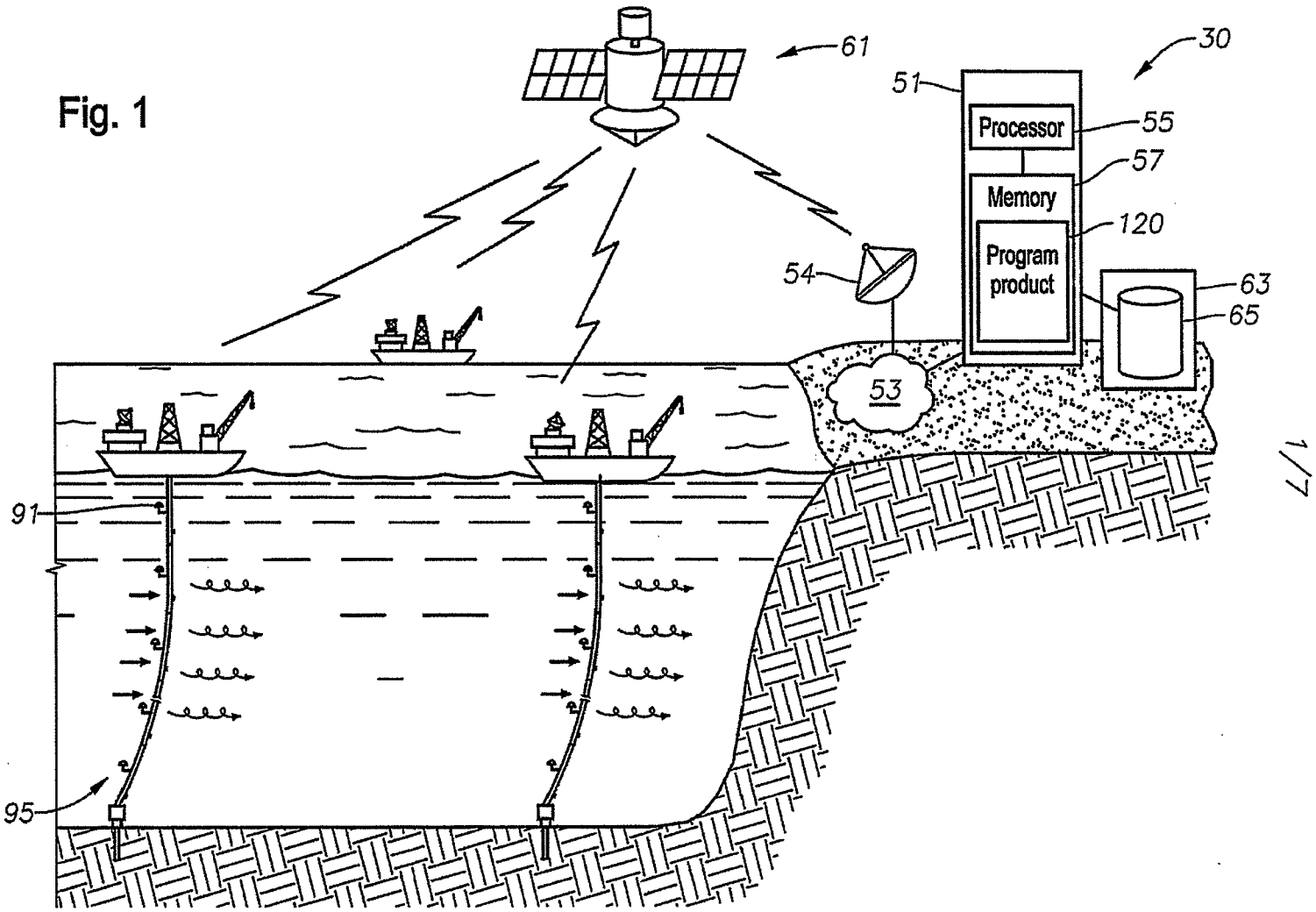
Fig. 1


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

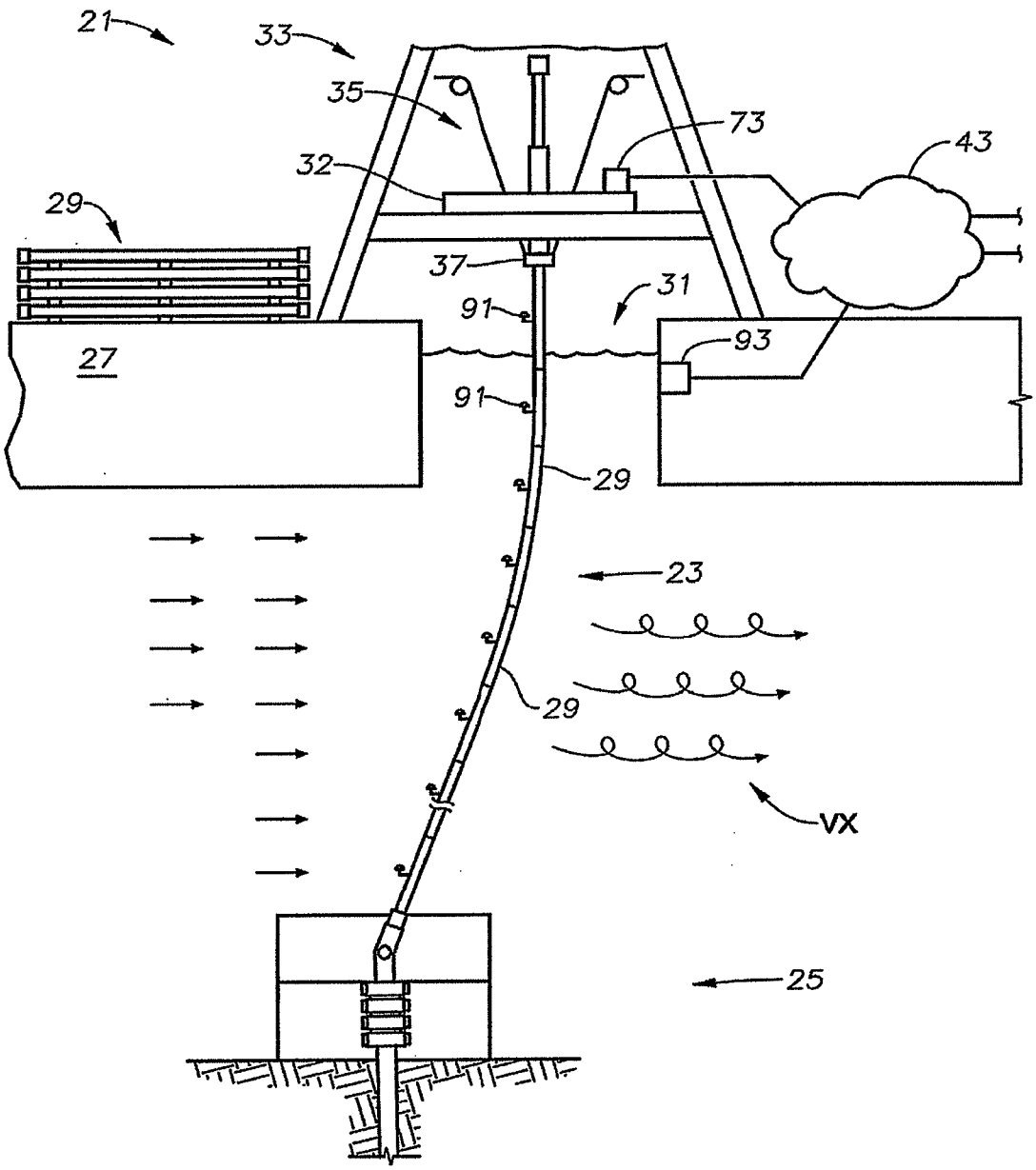


Fig. 2A

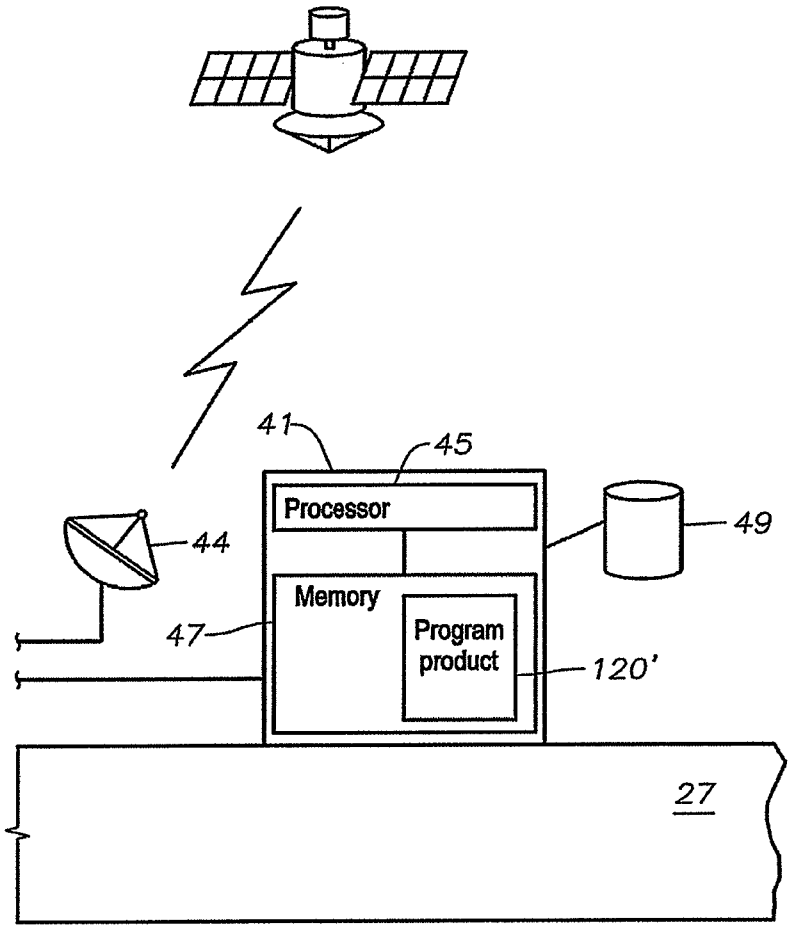


Fig. 2B

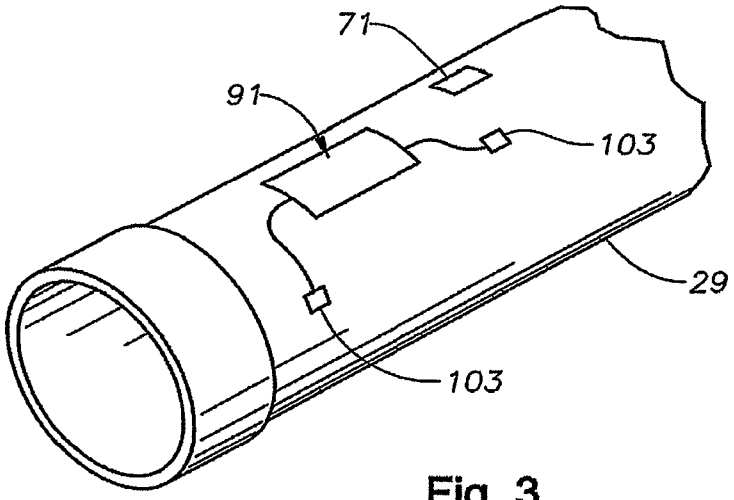

71
91
103
29
103

Fig. 3

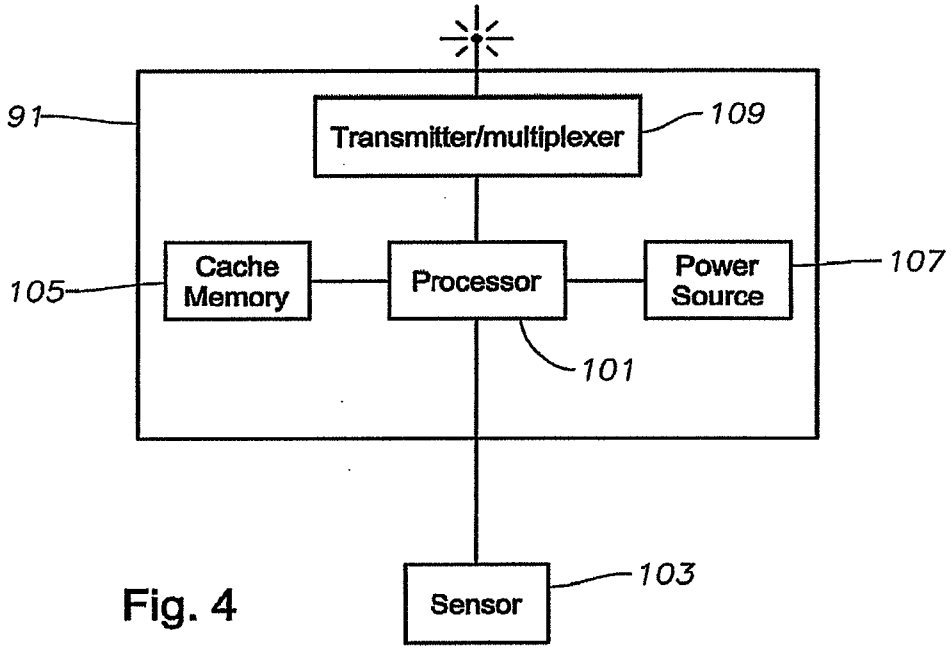

91
Transmitter/multiplexer
109
105
Cache Memory
Processor
Power Source
107
101
Sensor
103

Fig. 4

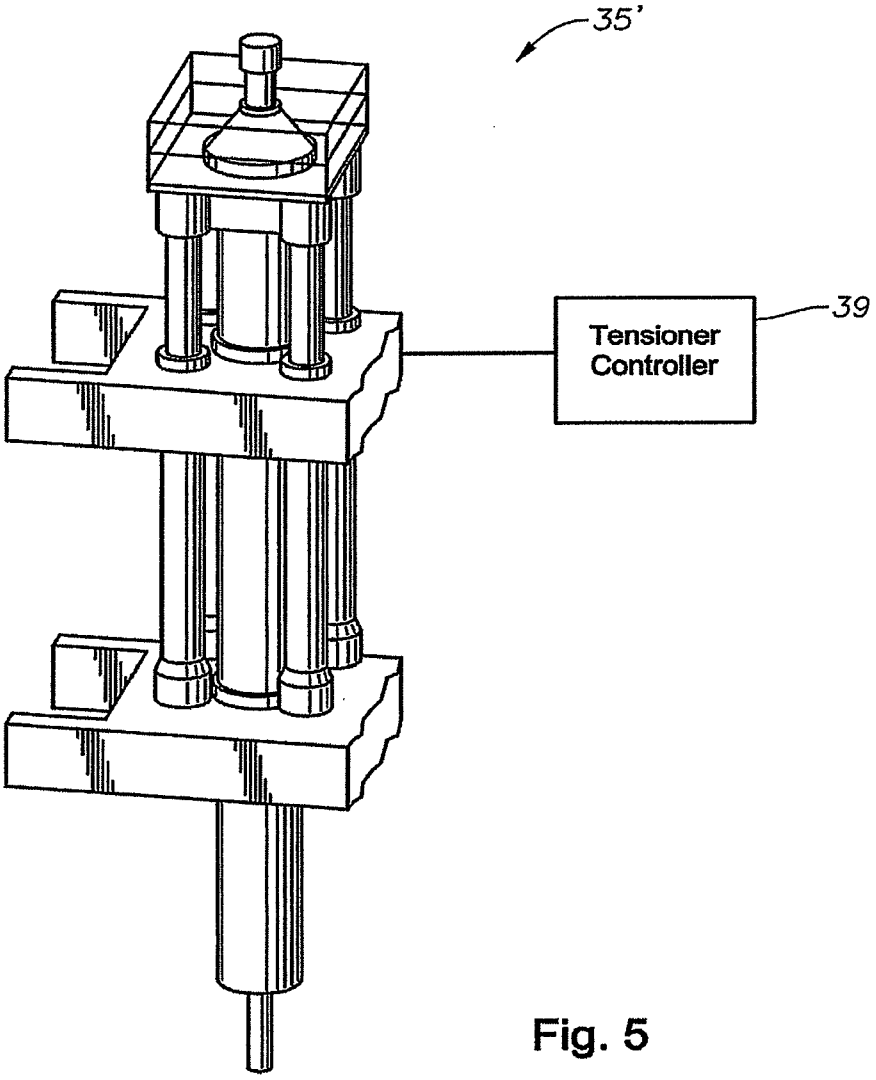


Fig. 5

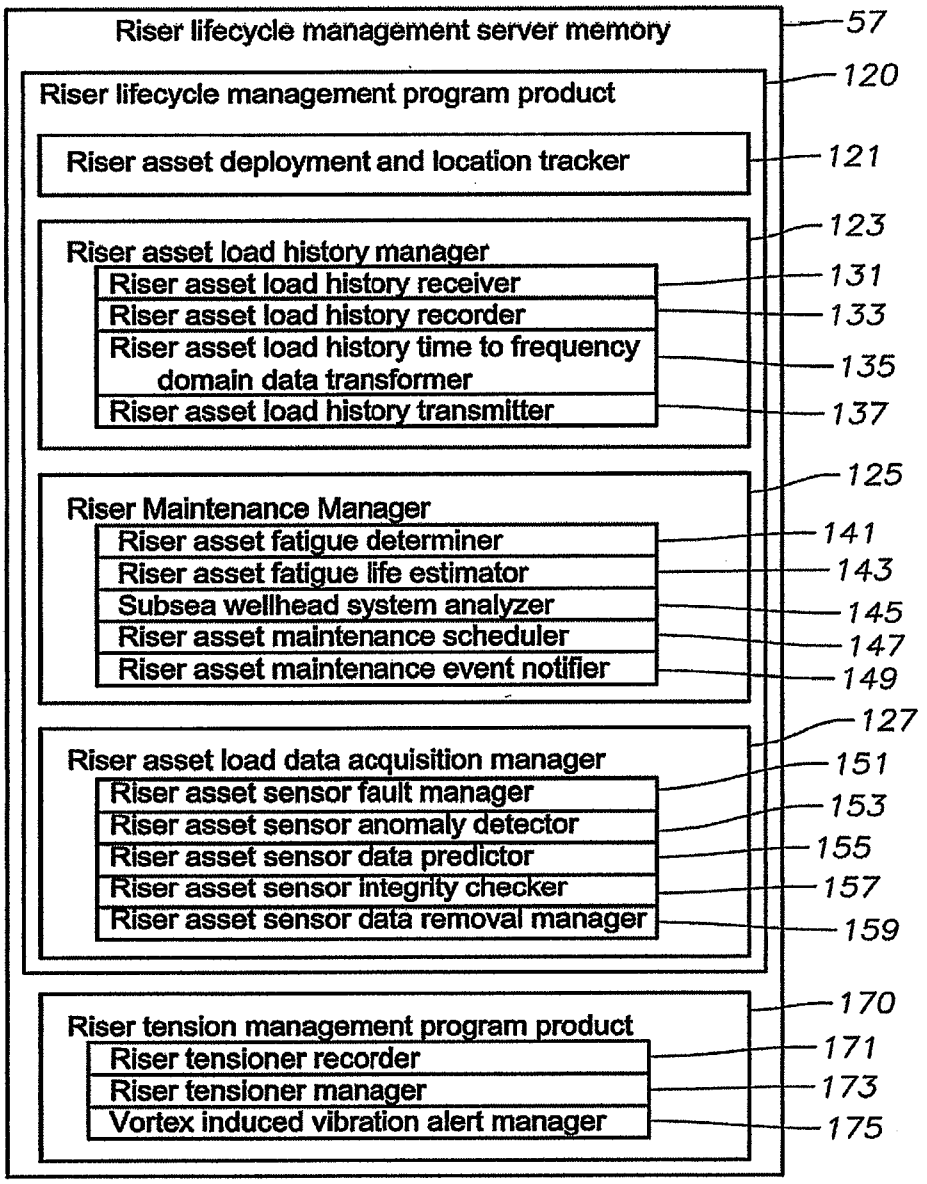

Riser lifecycle management server memory
57
Riser lifecycle management program product
120
Riser asset deployment and location tracker
121
Riser asset load history manager
123
Riser asset load history receiver
131
Riser asset load history recorder
133
Riser asset load history time to frequency domain data transformer
135
Riser asset load history transmitter
137
Riser Maintenance Manager
125
Riser asset fatigue determiner
141
Riser asset fatigue life estimator
143
Subsea wellhead system analyzer
145
Riser asset maintenance scheduler
147
Riser asset maintenance event notifier
149
Riser asset load data acquisition manager
127
Riser asset sensor fault manager
151
Riser asset sensor anomaly detector
153
Riser asset sensor data predictor
155
Riser asset sensor integrity checker
157
Riser asset sensor data removal manager
159
Riser tension management program product
170
Riser tensioner recorder
171
Riser tensioner manager
173
Vortex induced vibration alert manager
175

Fig. 6

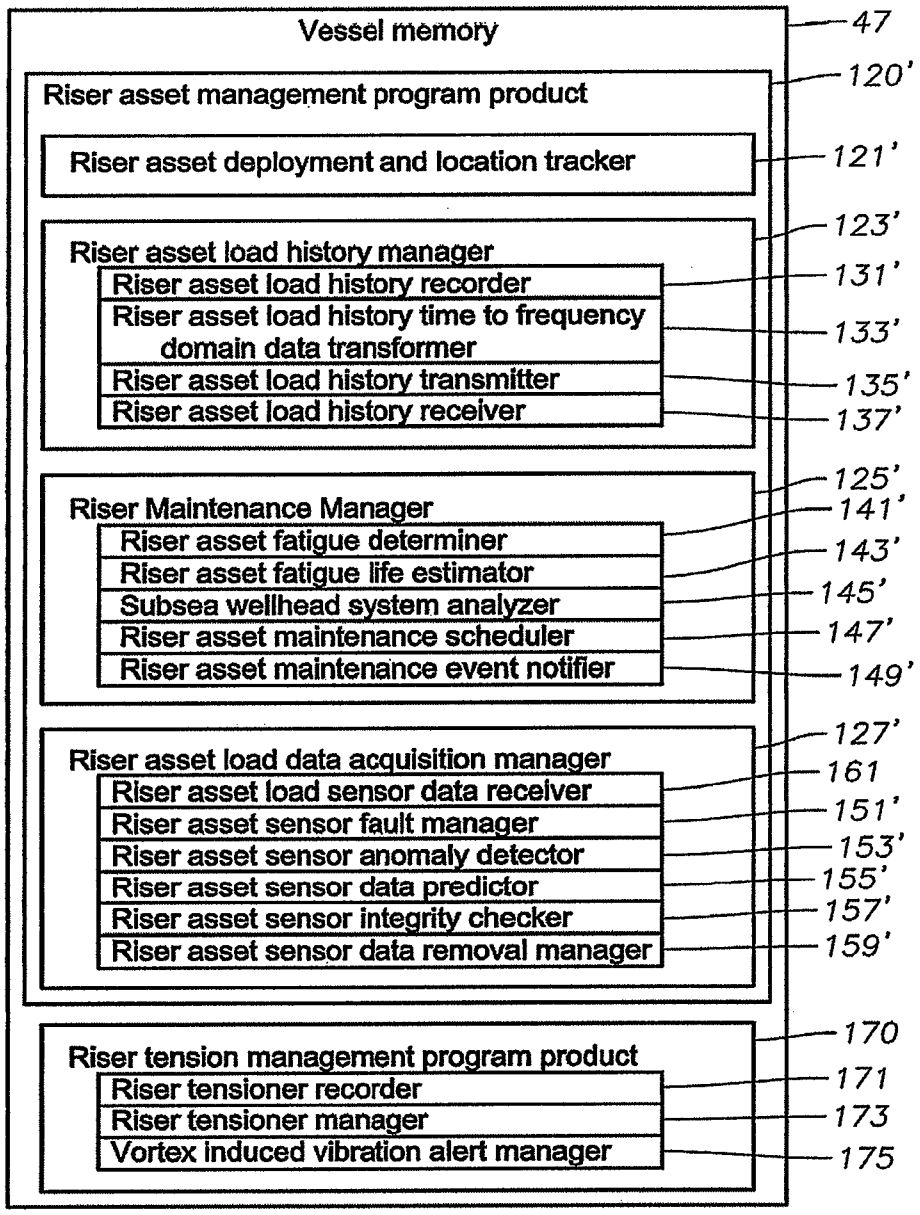

Vessel memory
47
Riser asset management program product
120'
Riser asset deployment and location tracker
121'
Riser asset load history manager
123'
Riser asset load history recorder
131'
Riser asset load history time to frequency domain data transformer
133'
Riser asset load history transmitter
135'
Riser asset load history receiver
137'
Riser Maintenance Manager
125'
Riser asset fatigue determiner
141'
Riser asset fatigue life estimator
143'
Subsea wellhead system analyzer
145'
Riser asset maintenance scheduler
147'
Riser asset maintenance event notifier
149'
Riser asset load data acquisition manager
127'
Riser asset load sensor data receiver
161
Riser asset sensor fault manager
151'
Riser asset sensor anomaly detector
153'
Riser asset sensor data predictor
155'
Riser asset sensor integrity checker
157'
Riser asset sensor data removal manager
159'
Riser tension management program product
170
Riser tensioner recorder
171
Riser tensioner manager
173
Vortex induced vibration alert manager
175

Fig. 7