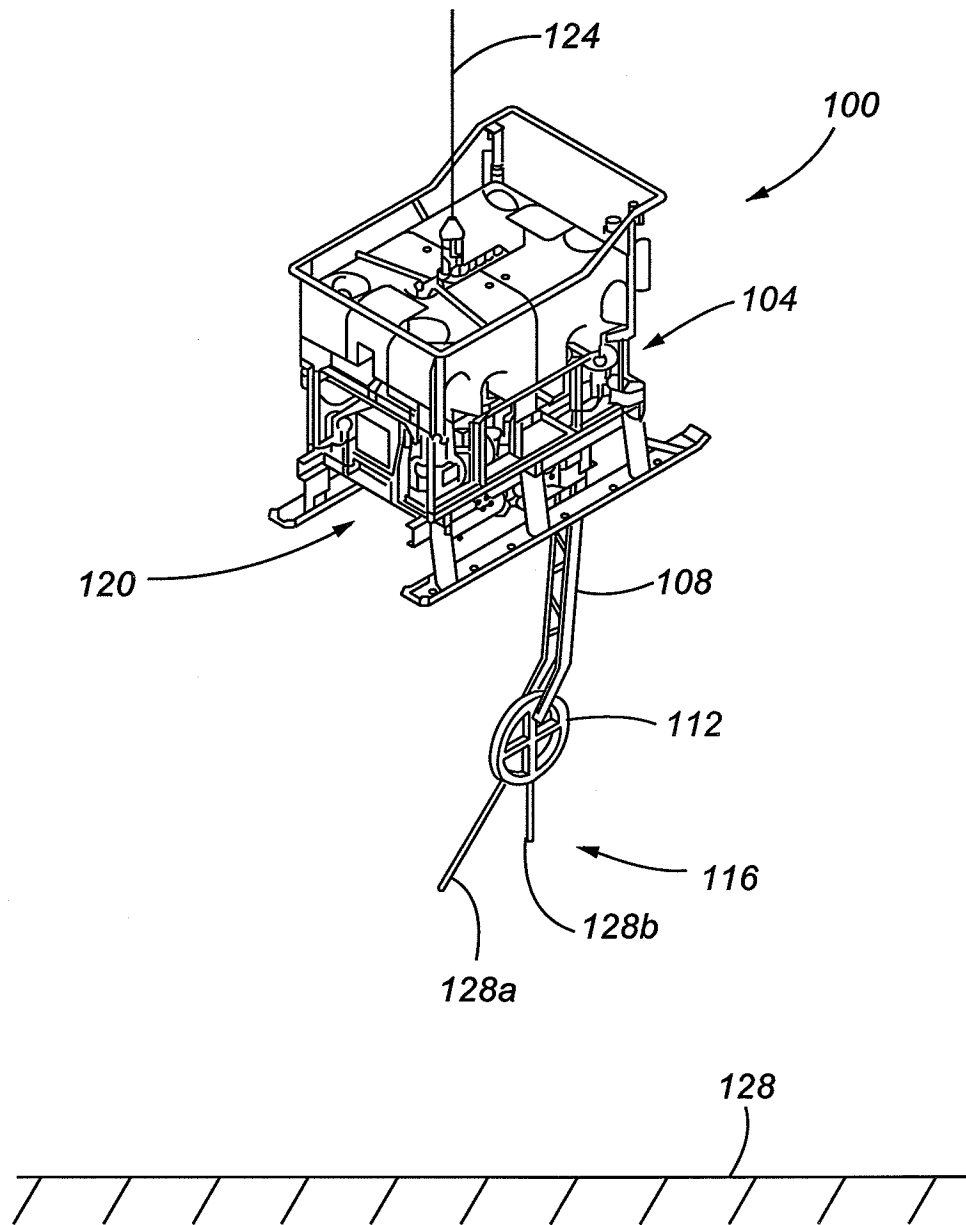


**Fig. 1**

Coil in seawater

- Induced currents flow around the coil in the plane of the coil
- Current flow is symmetric around coil

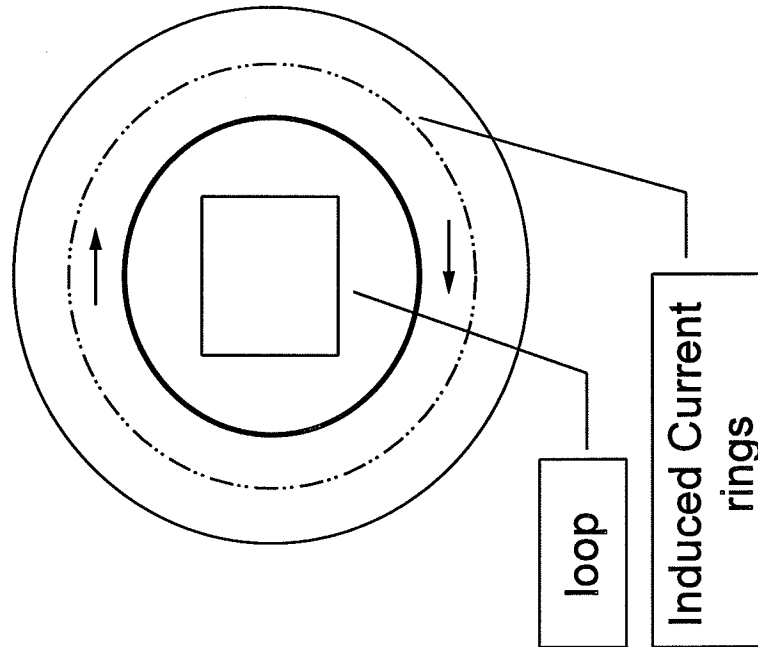
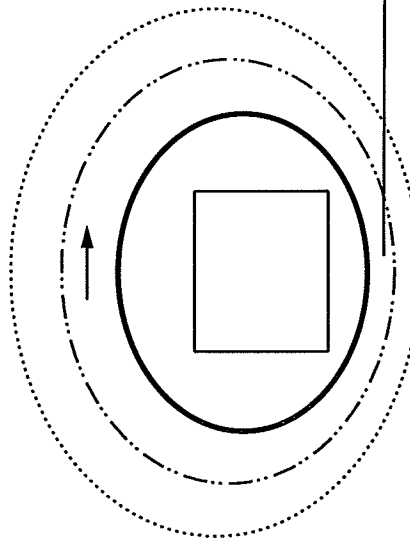


Fig. 2

Coil over resistive ocean bottom

- Induced currents flow around the coil in the plane of the coil.
- Current density in water below the coil is anomalously high as current flows preferentially in the water because it is more conductive than the bottom material



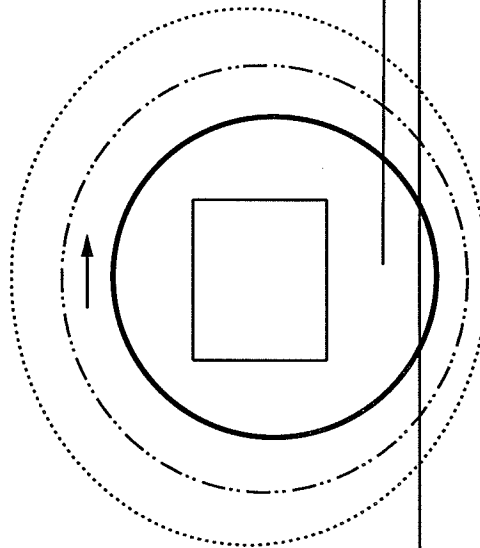
Resistive ocean bottom
(e.g. Basalt)

Region of increased current density with respect to seawater. The horizontal E field is greater than it would be in seawater alone in this region

Fig. 3

Coil over conductive ocean bottom

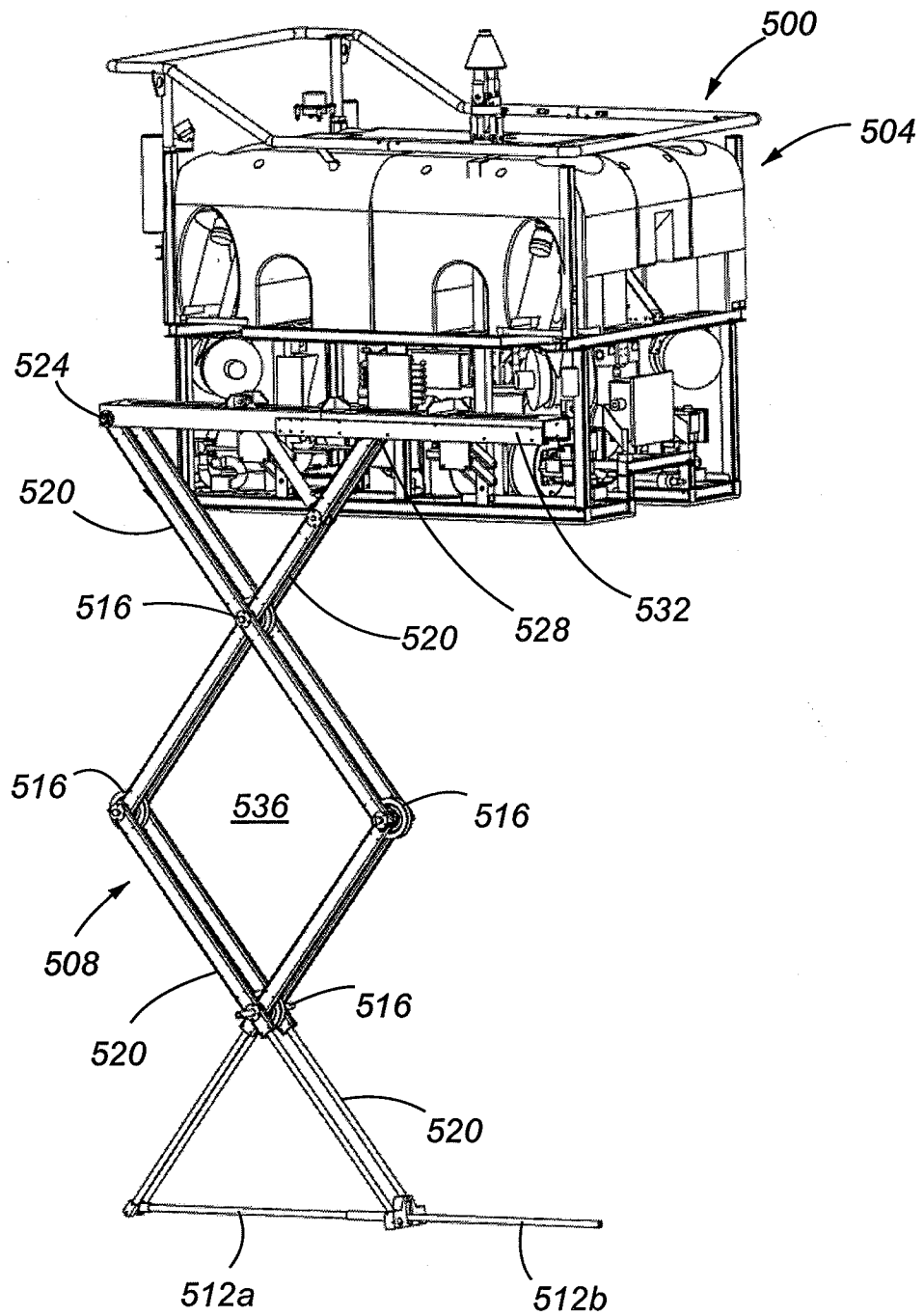
- Induced currents flow around the coil in the plane of the coil.
- Current density in water below the coil is anomalously high as current flows preferentially in the sulfide because it is more conductive than the seawater above.



Conductive Ocean Bottom
(Eg. Sulfides)

Region of decreased current density normalized to current density in seawater only. The horizontal E field is less than it would be in seawater alone in this region

Fig. 4

**Fig. 5**

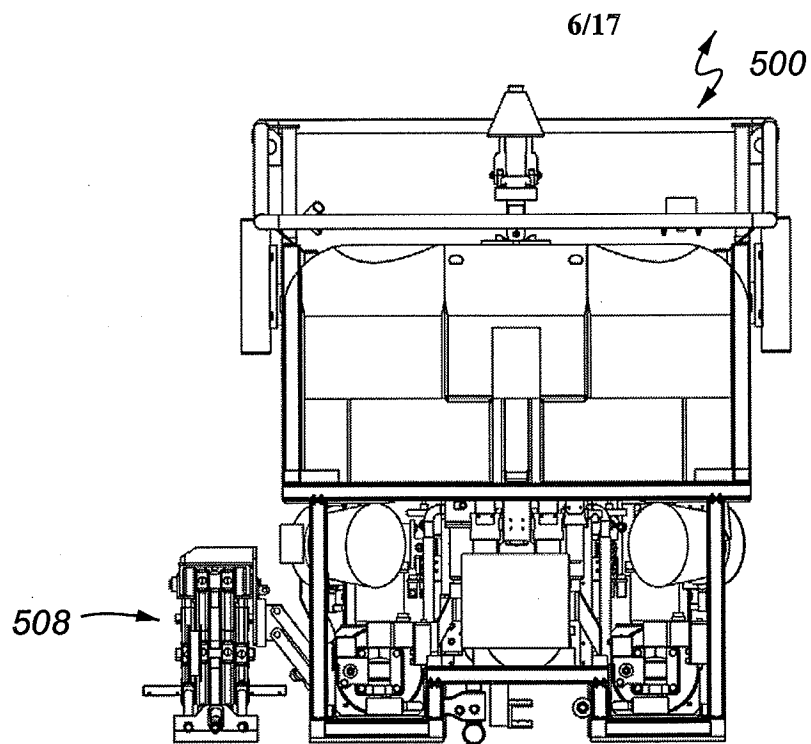


Fig. 6

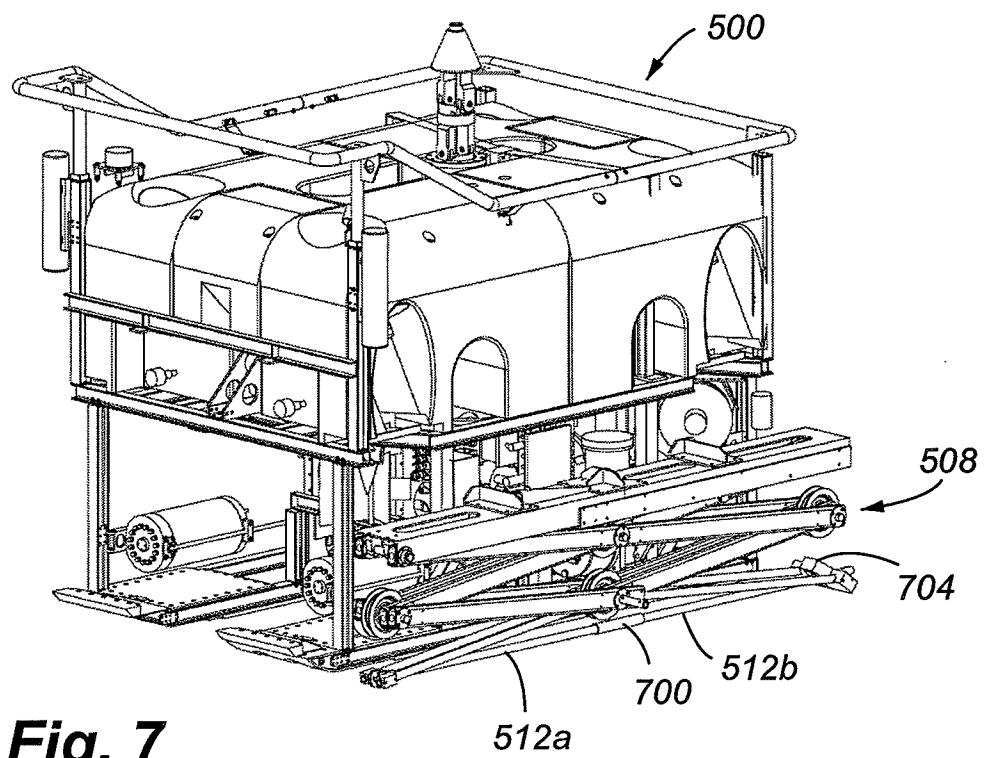
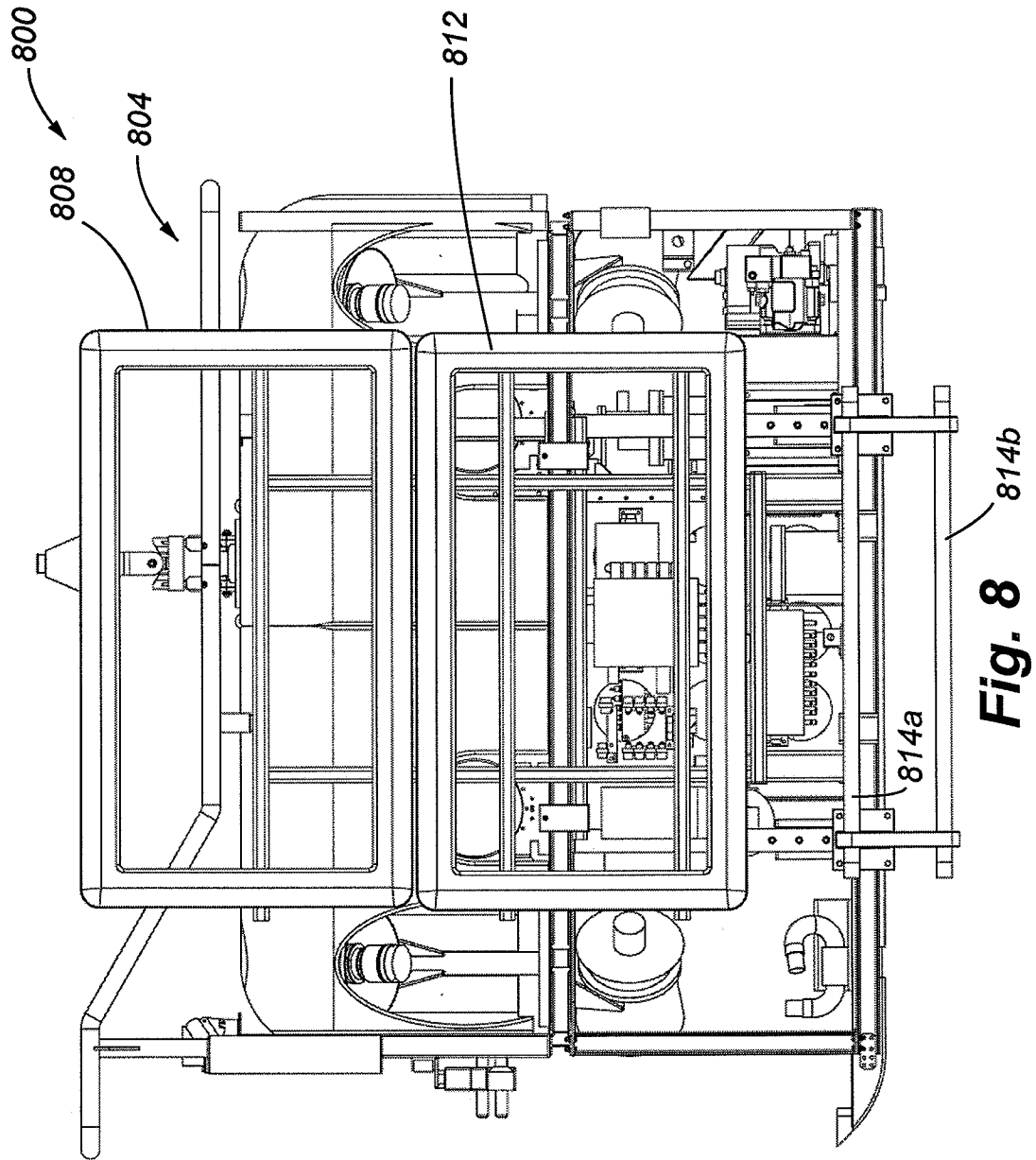
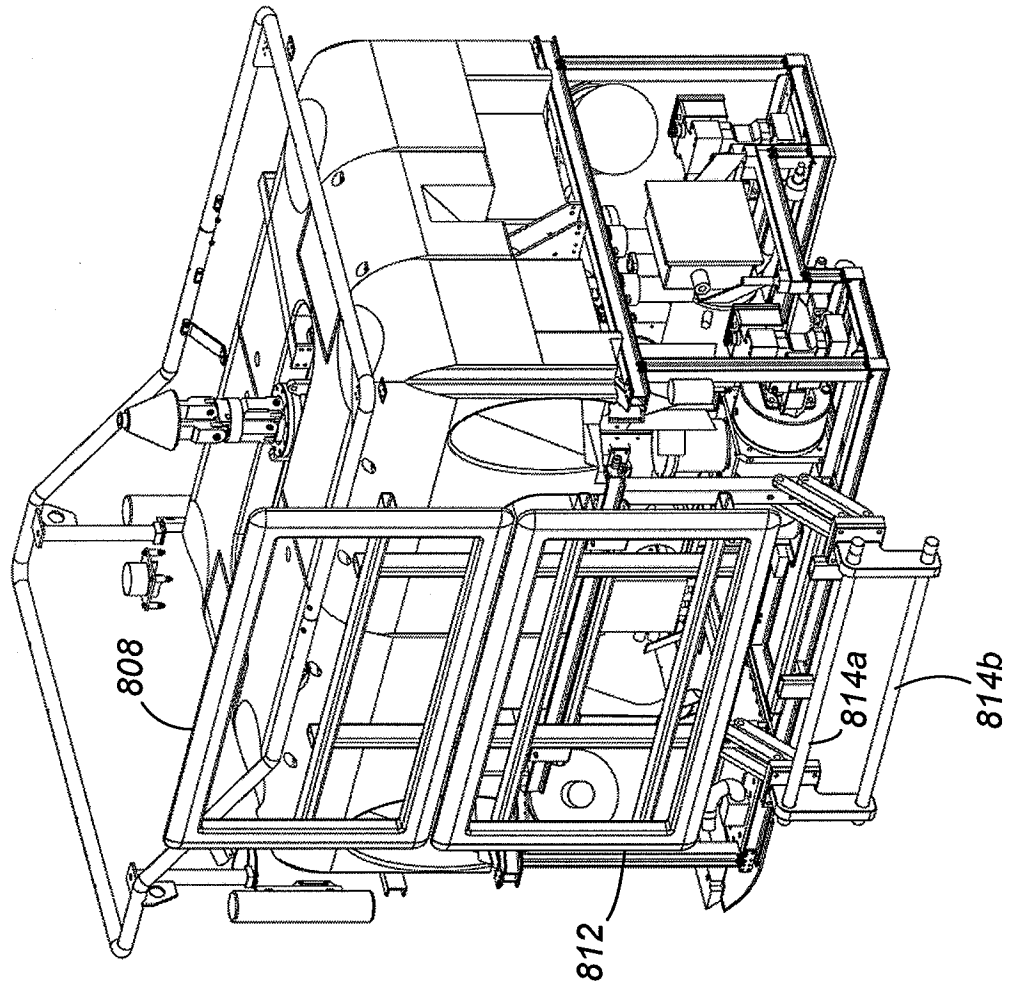


Fig. 7



**Fig. 9**

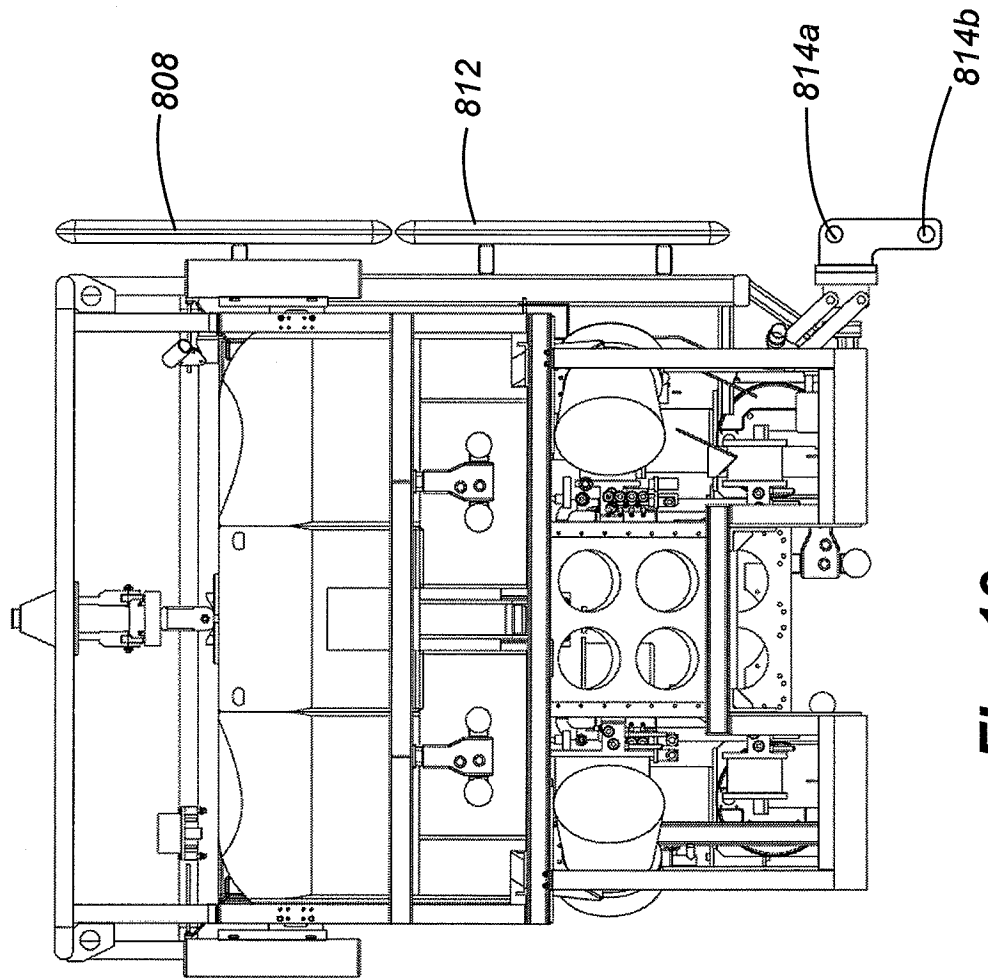
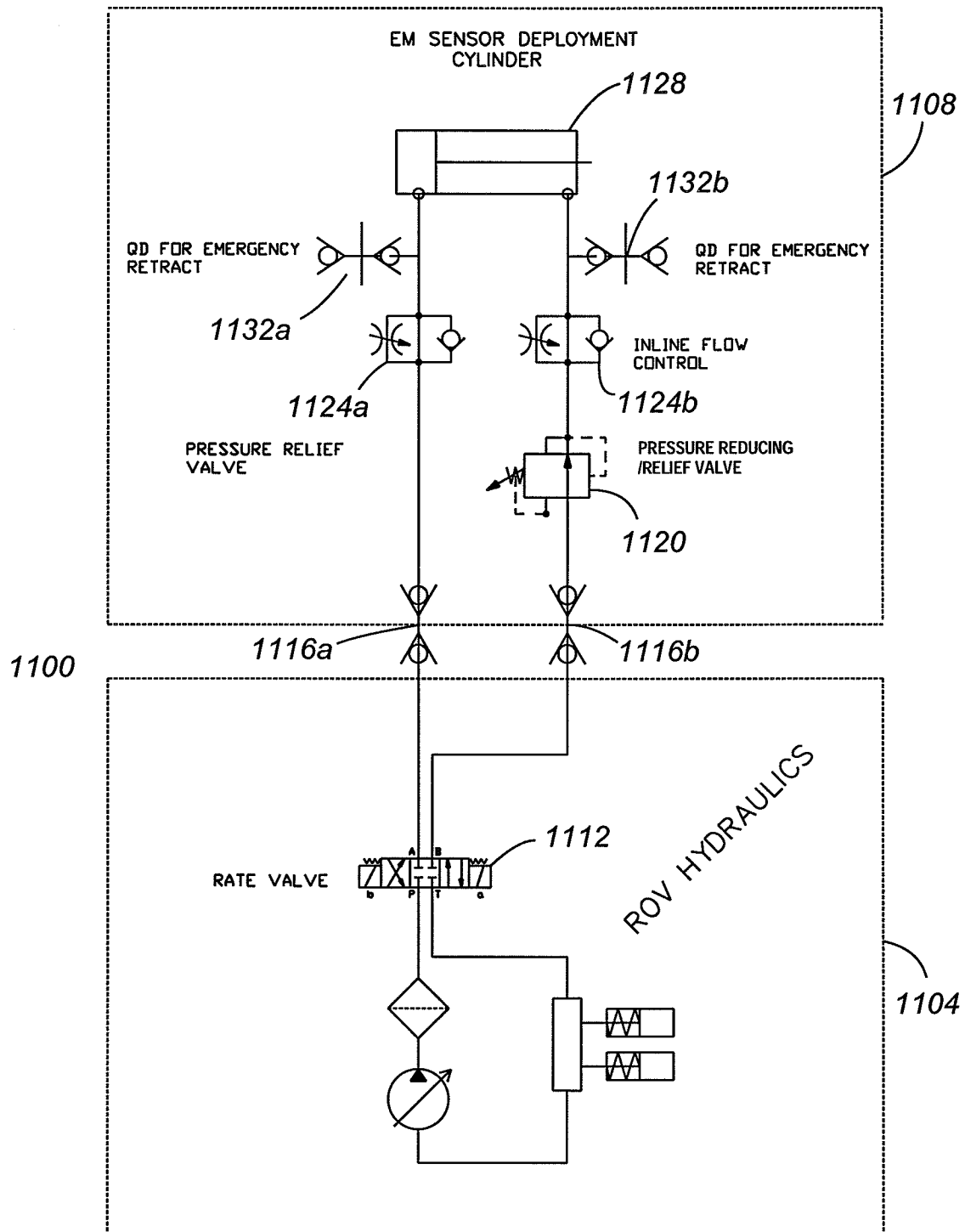


Fig. 10

**Fig. 11**

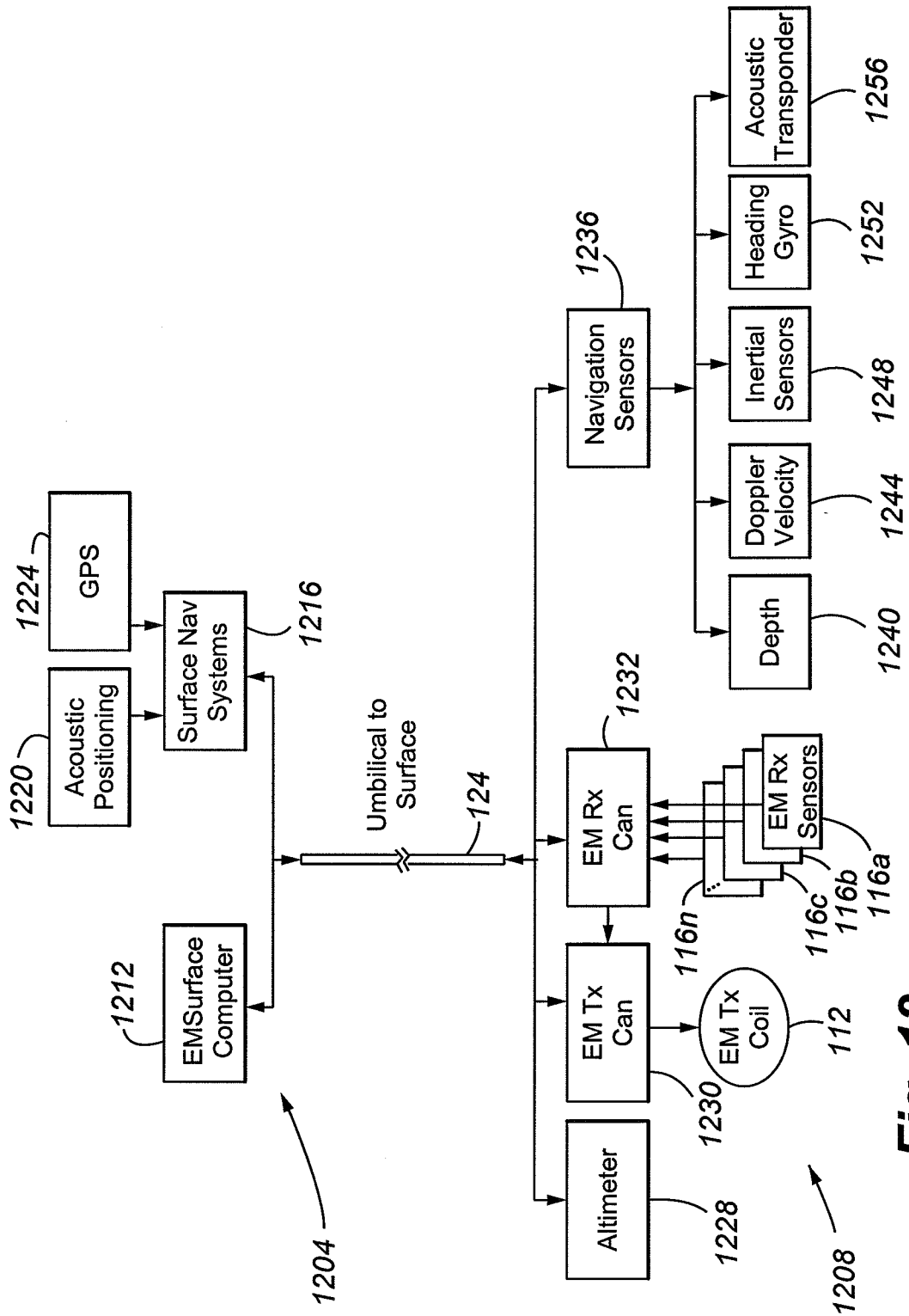
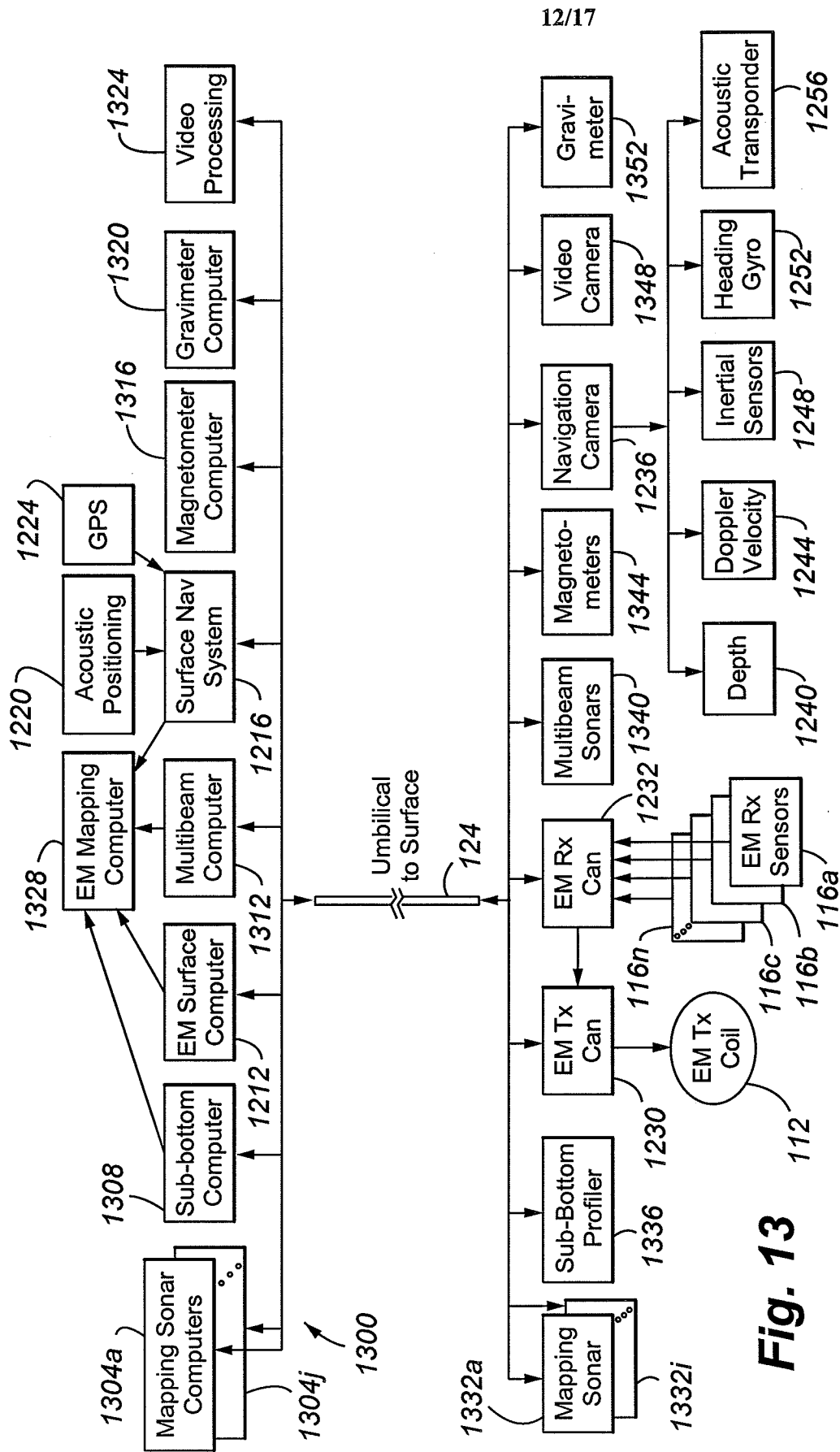


Fig. 12



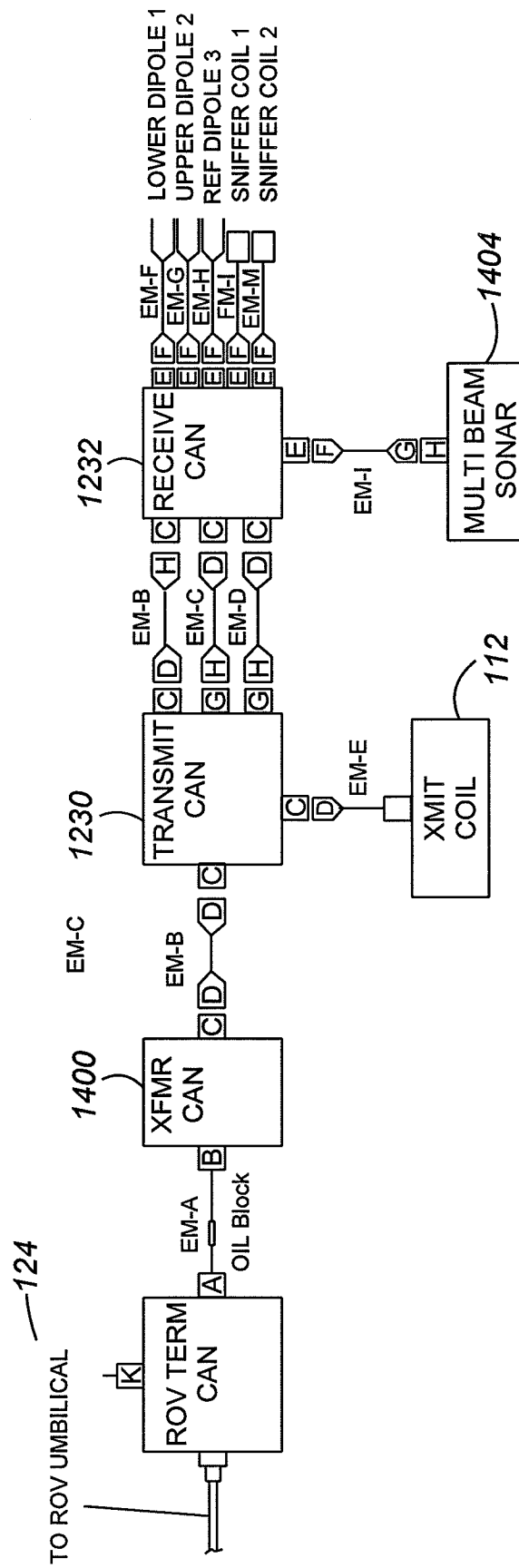


Fig. 14

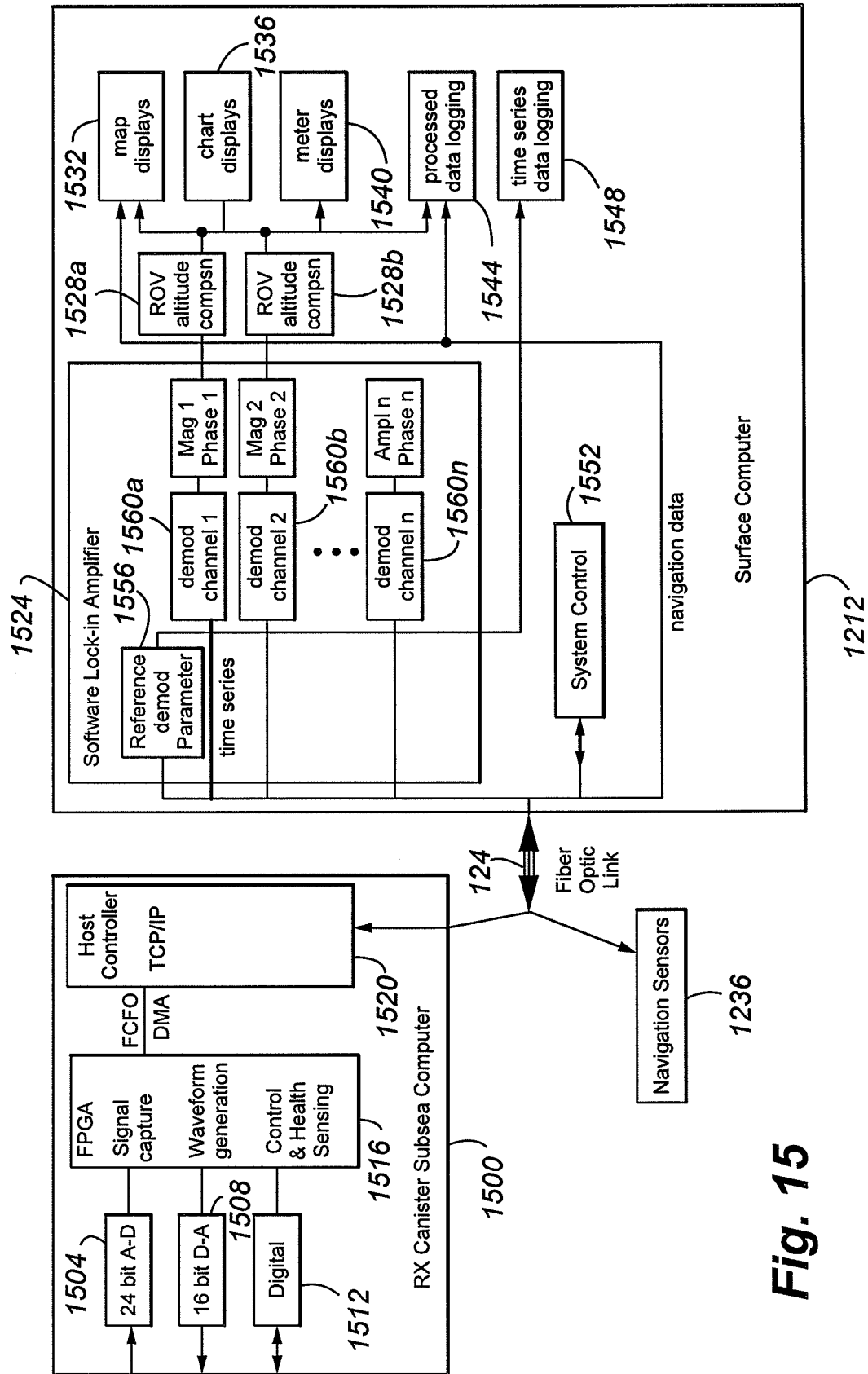
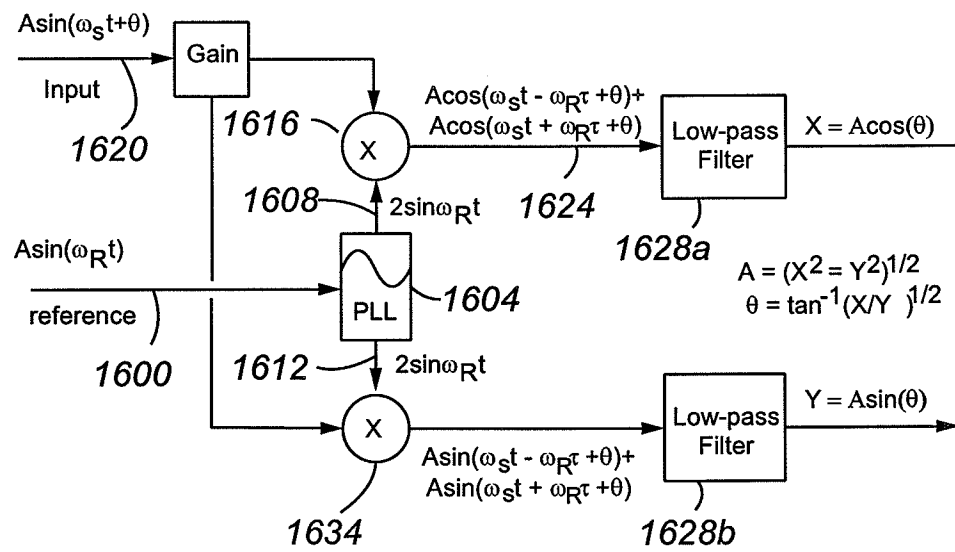


Fig. 15

**Fig. 16**

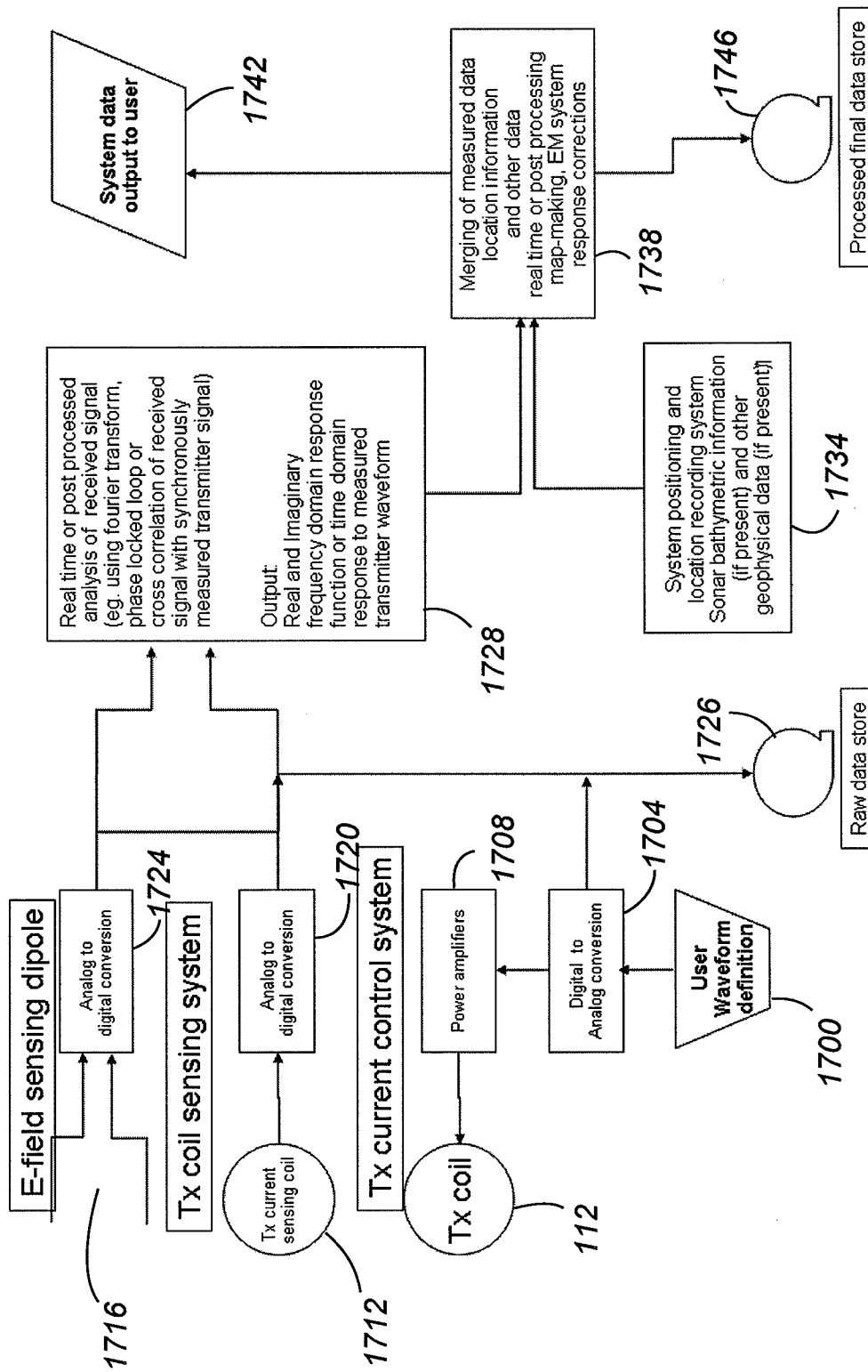


Fig. 17

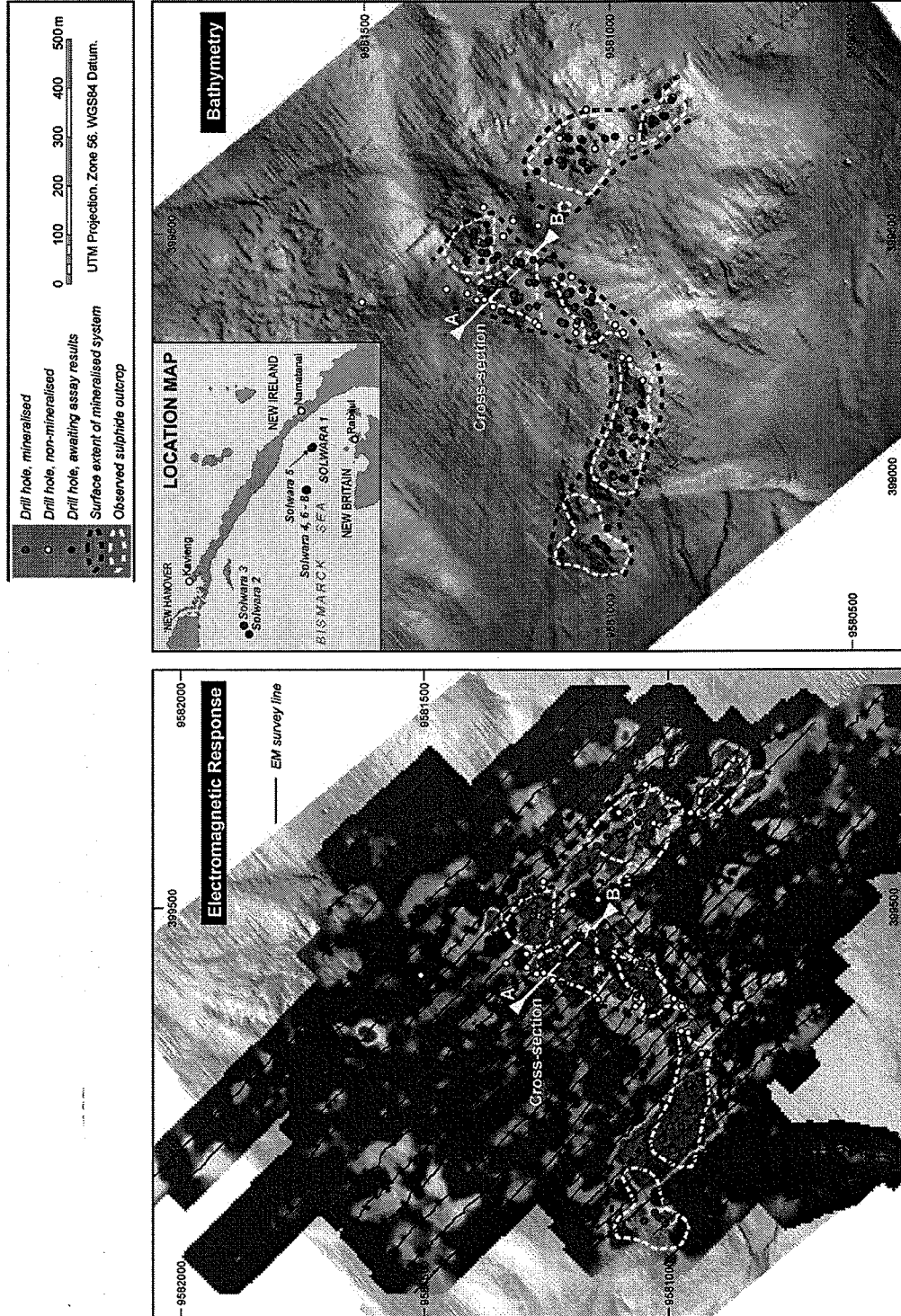


Fig. 19

Fig. 18