

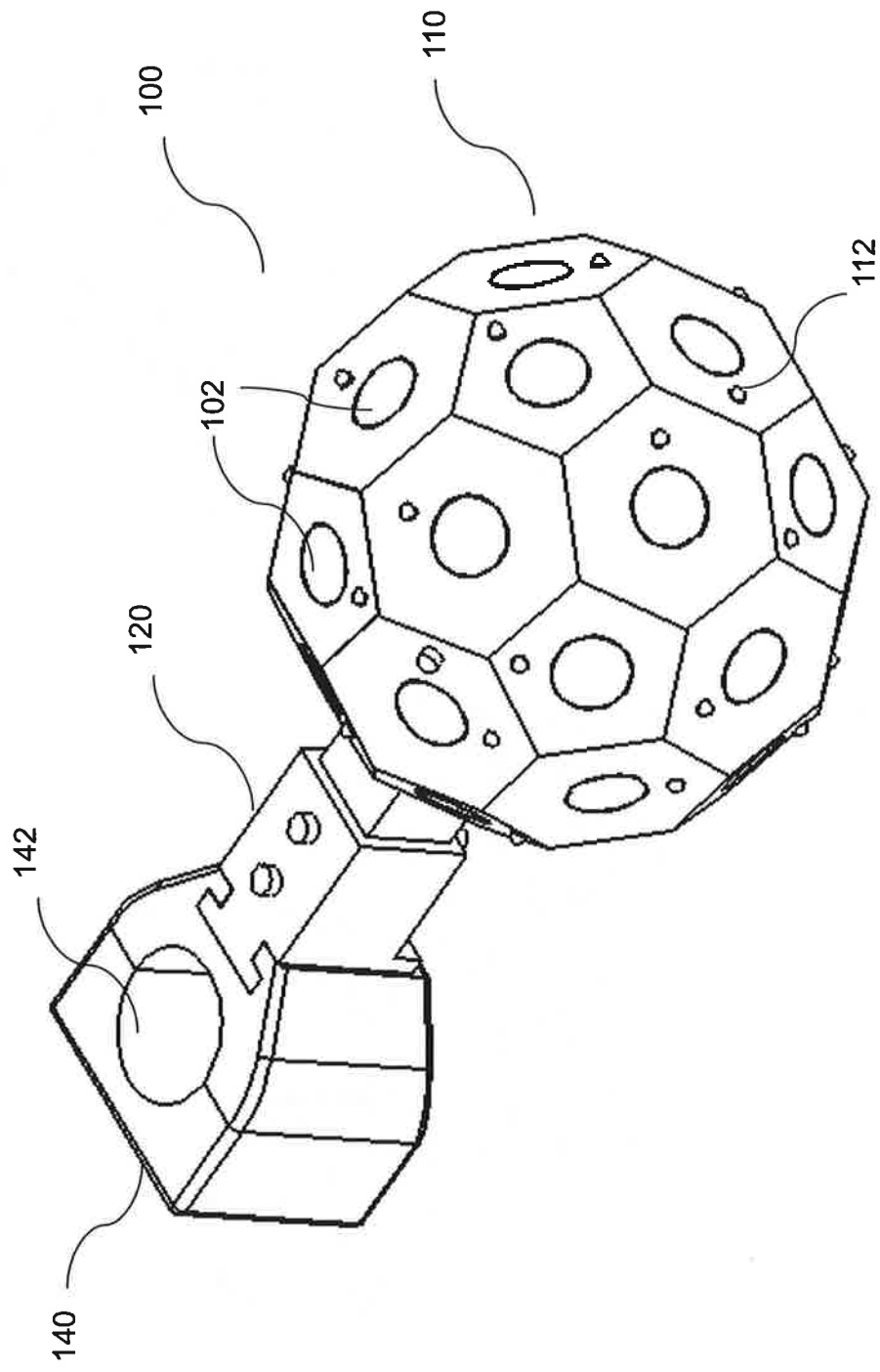


Fig. 1

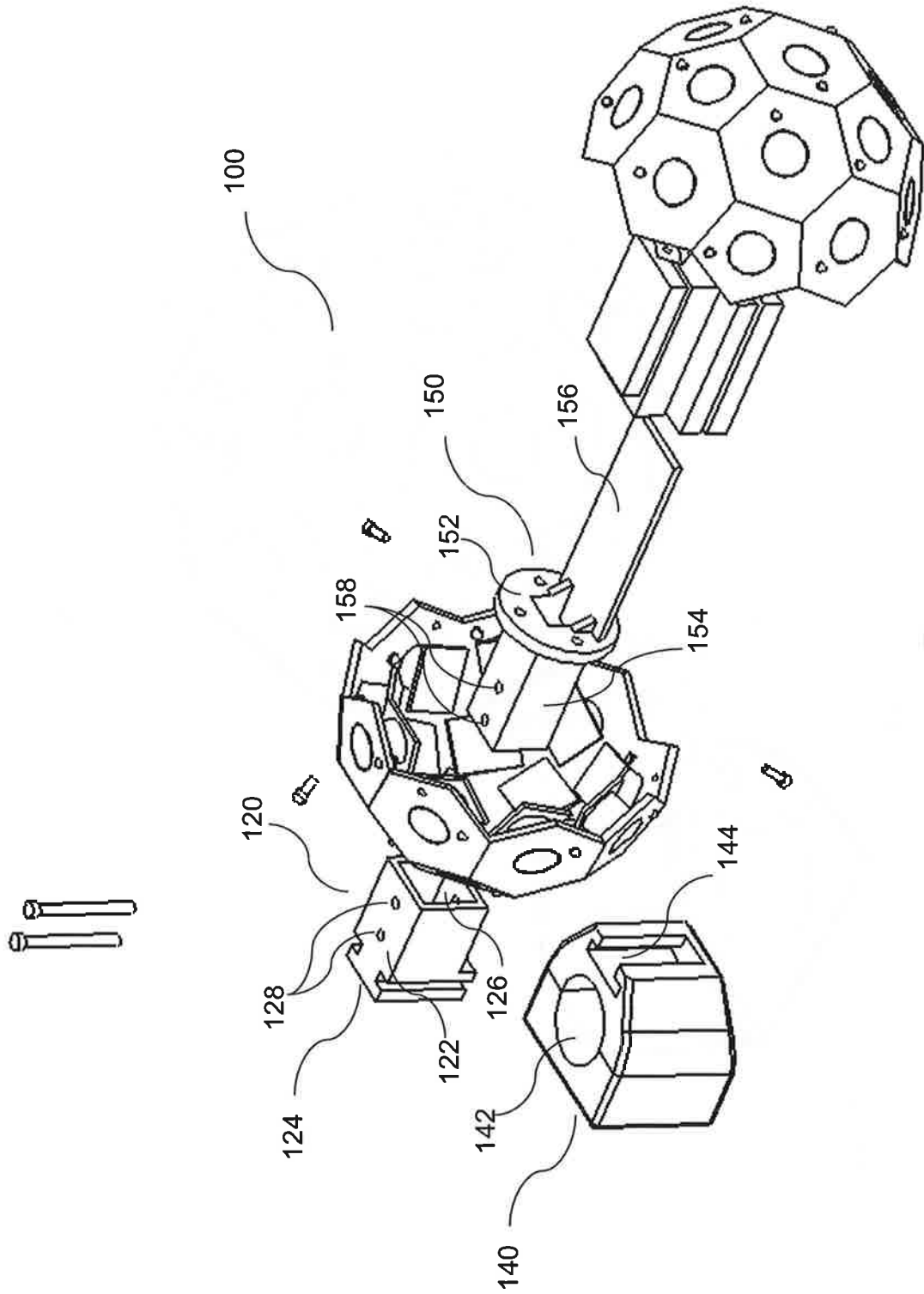


Fig. 2

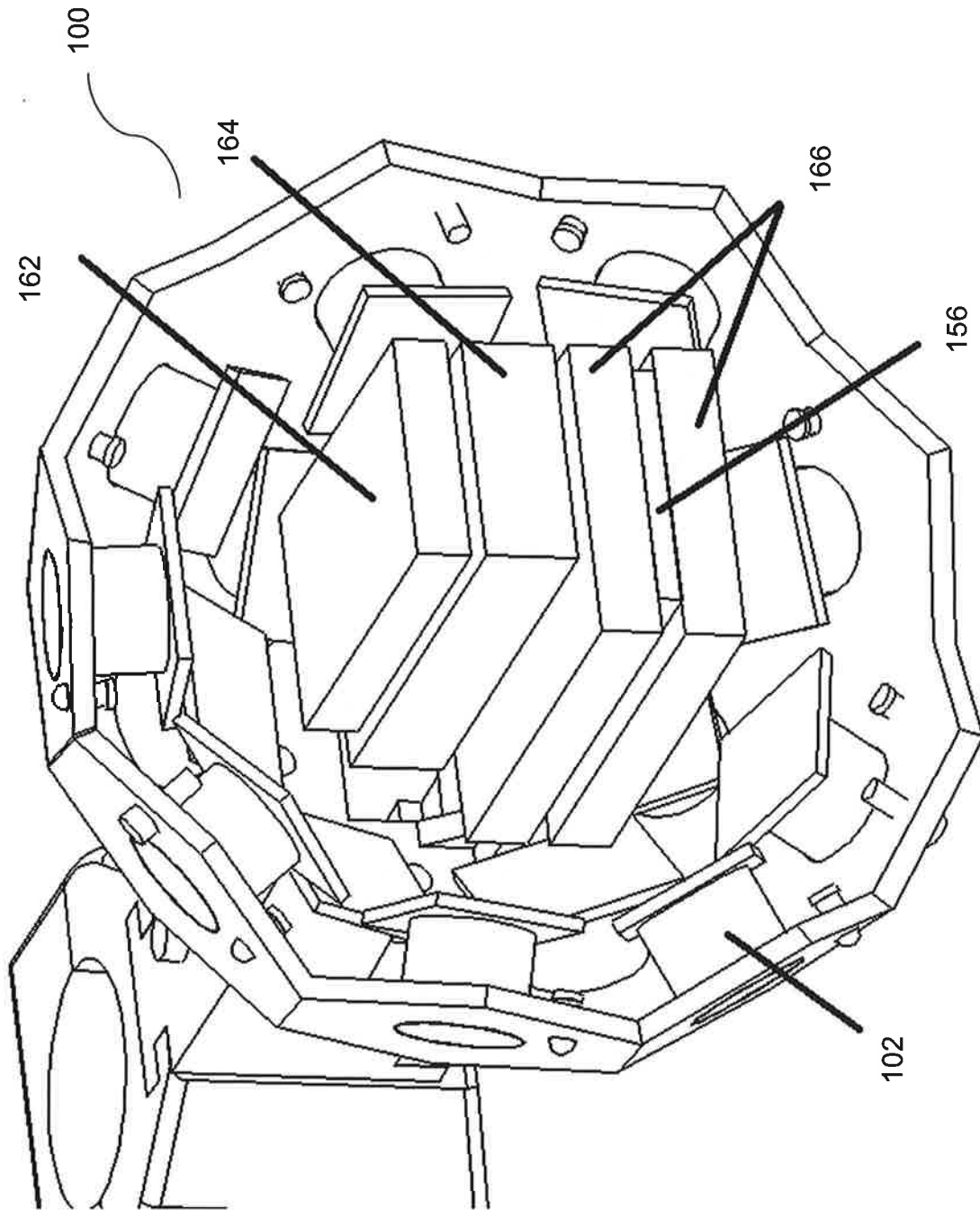


Fig. 3

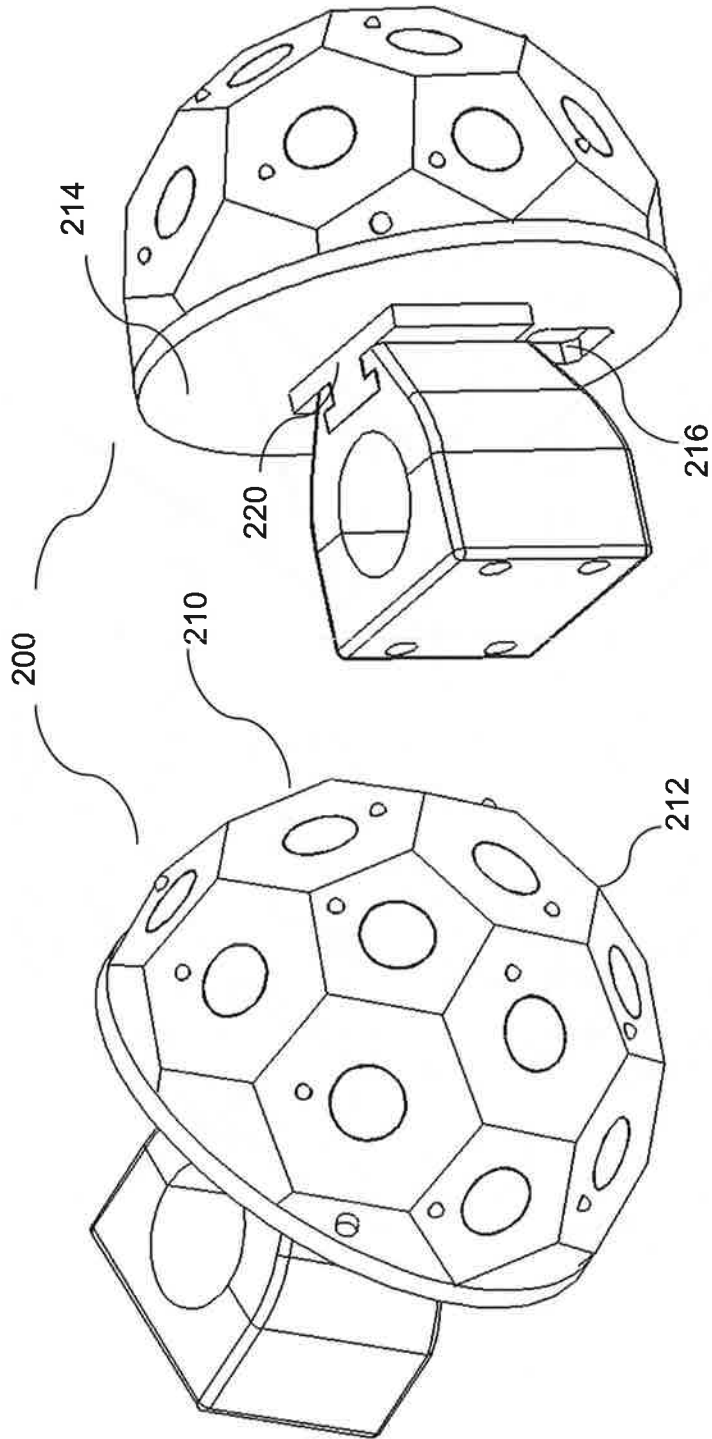


Fig. 4A

Fig. 4B

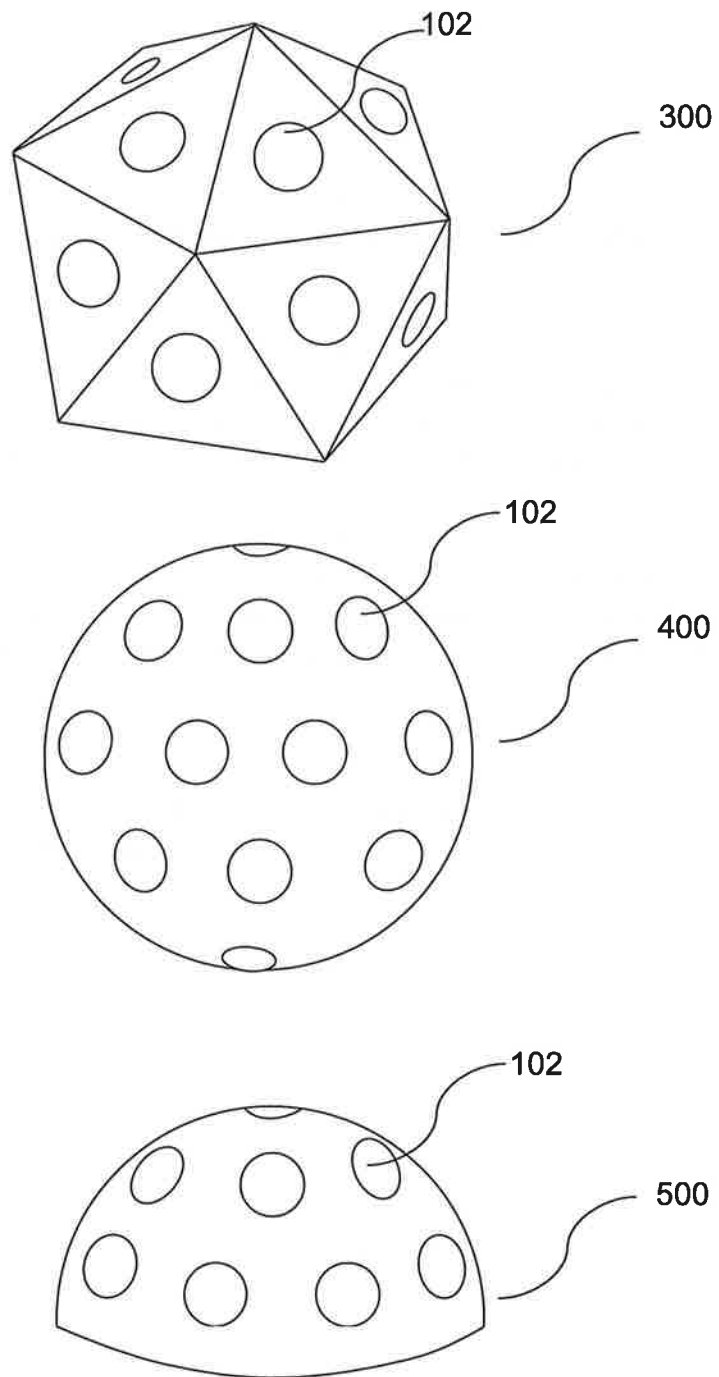


Fig. 5

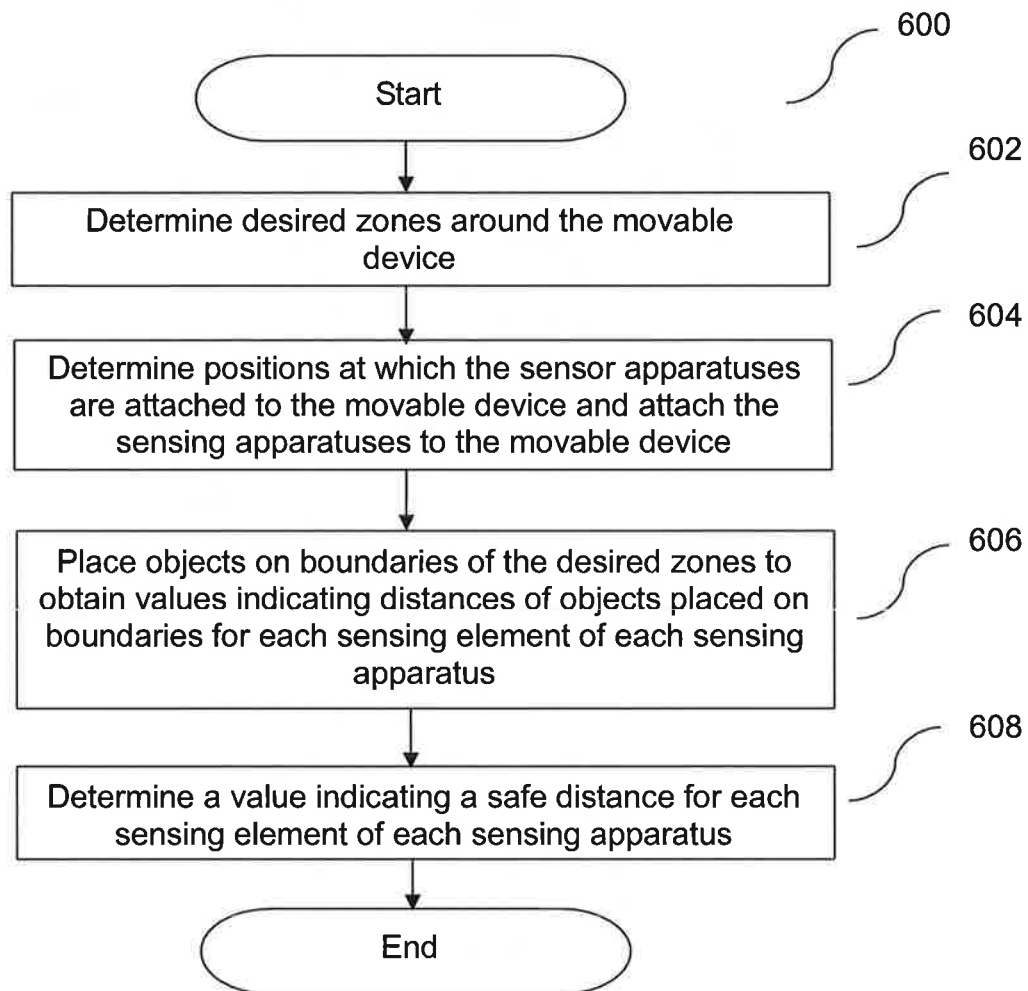


Fig. 6

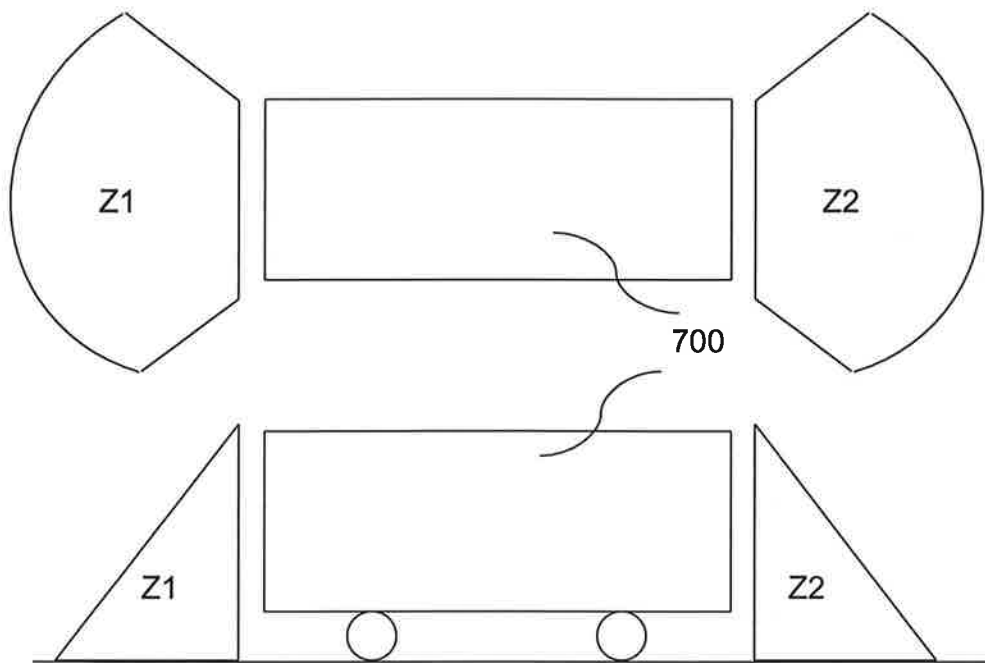


Fig. 7

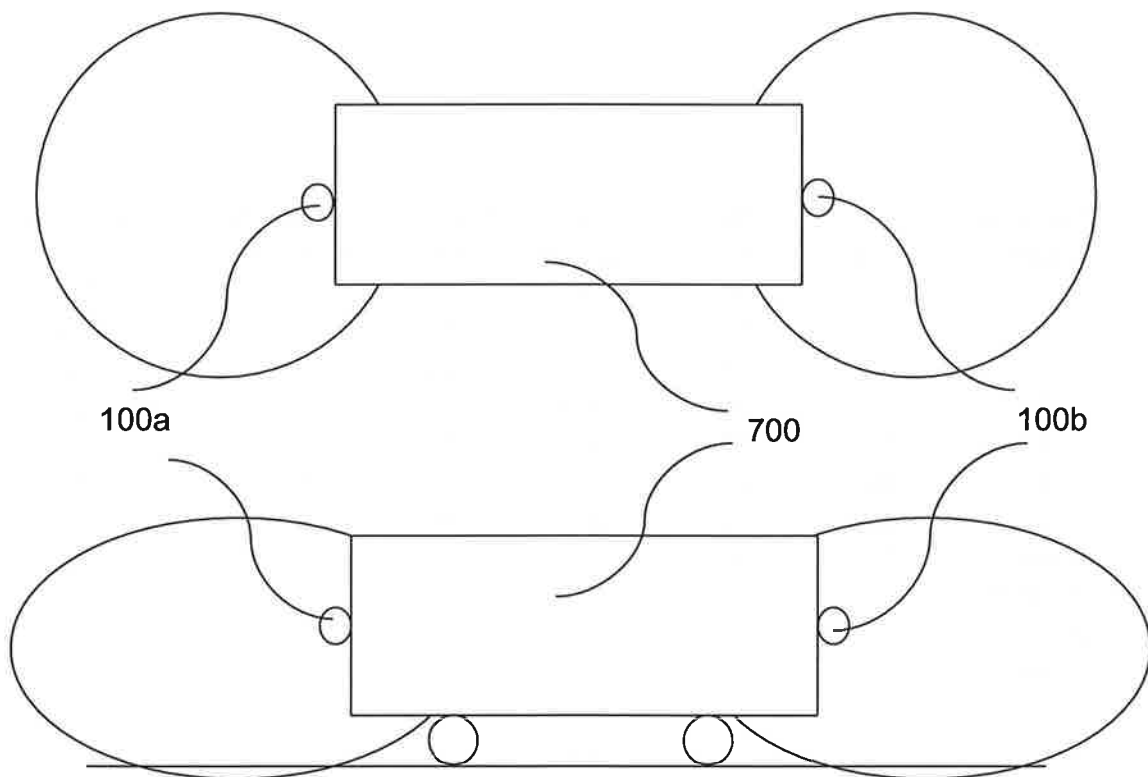


Fig. 8

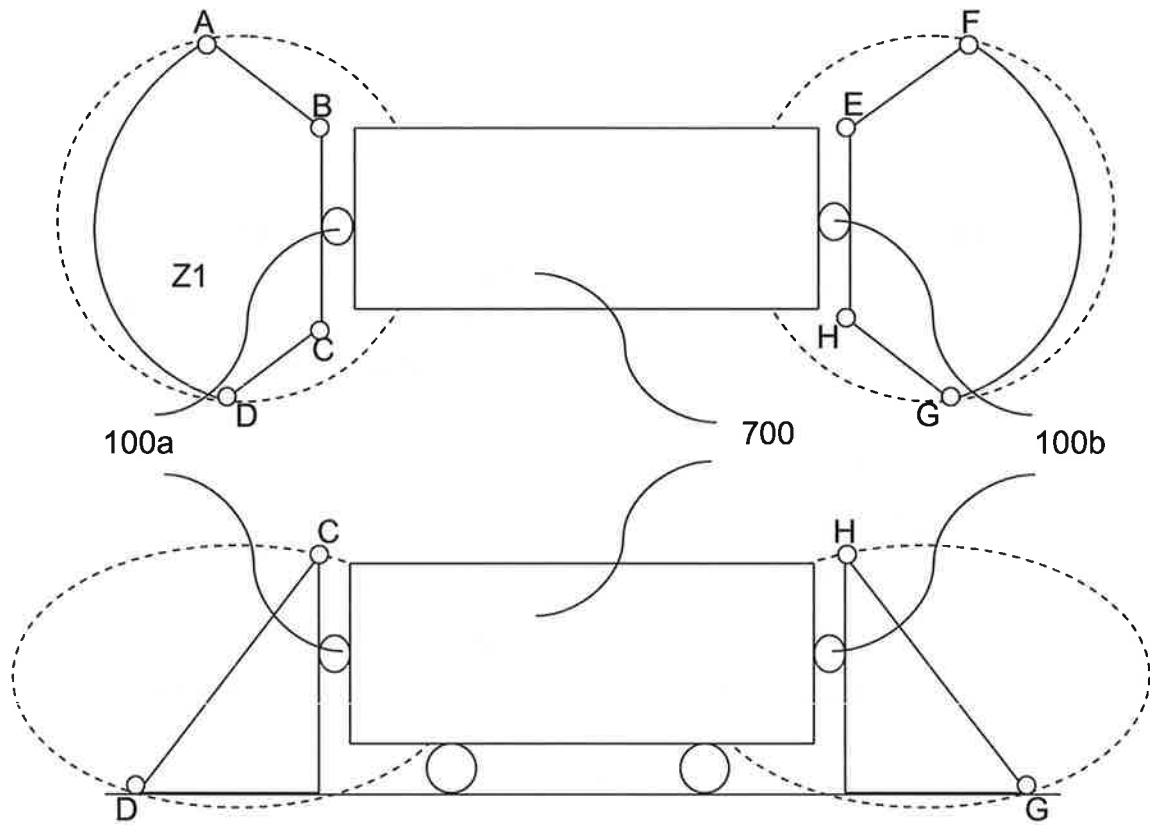


Fig. 9

Obstacle Point	Sensing Element 1	Sensing Element 2	Sensing Element 3	Sensing Element 4	Sensing Element 5	...	Sensing Element 31
1	100	90	76	44	87	...	100
2	100	100	87	65	44	...	100
3	100	100	100	100	50	...	100
4	83	94	45	89	98	...	77
5	10	80	88	82	93	...	89
6	98	92	87	90	91	...	100
Value indicating a safe distance	<u>10</u>	<u>80</u>	<u>45</u>	<u>44</u>	<u>44</u>	...	<u>77</u>

Fig. 10

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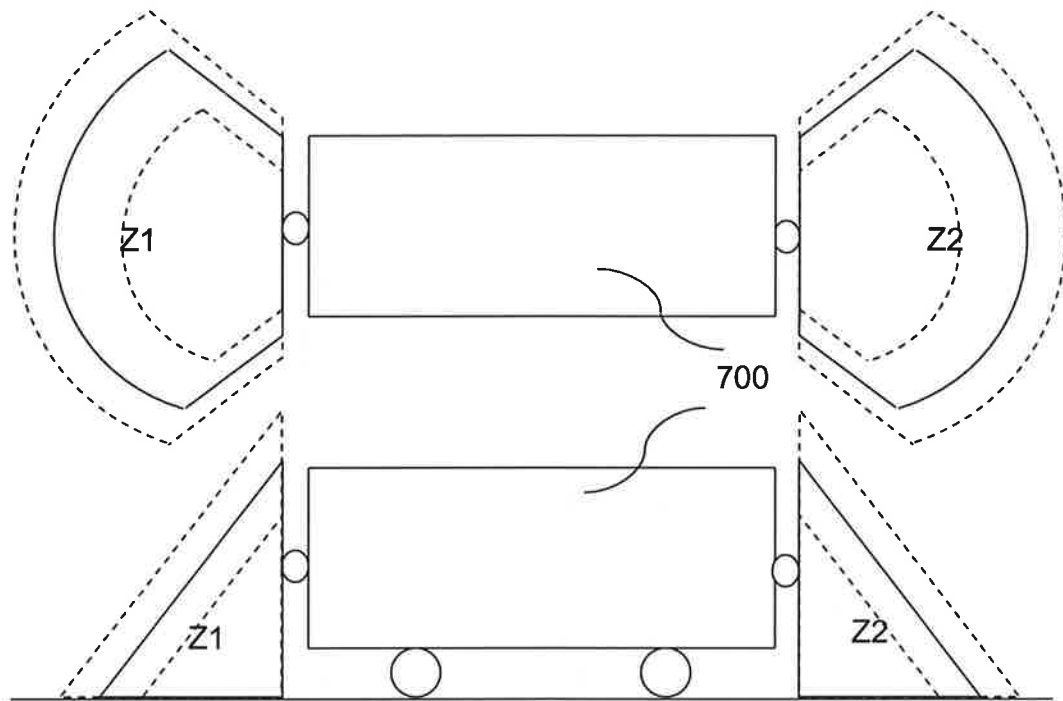


Fig.11

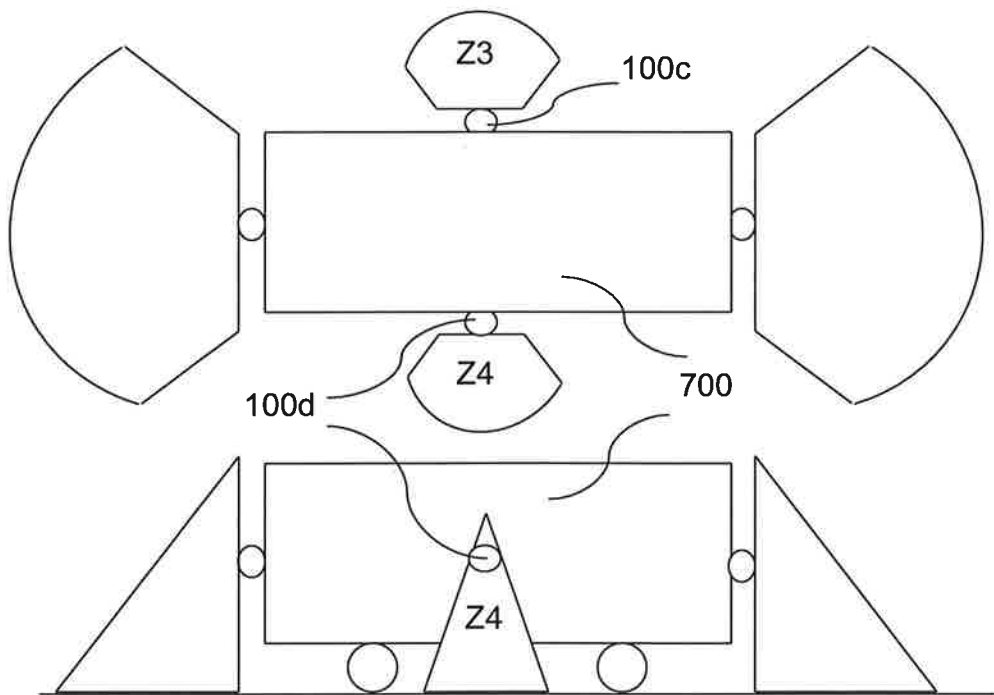


Fig.12

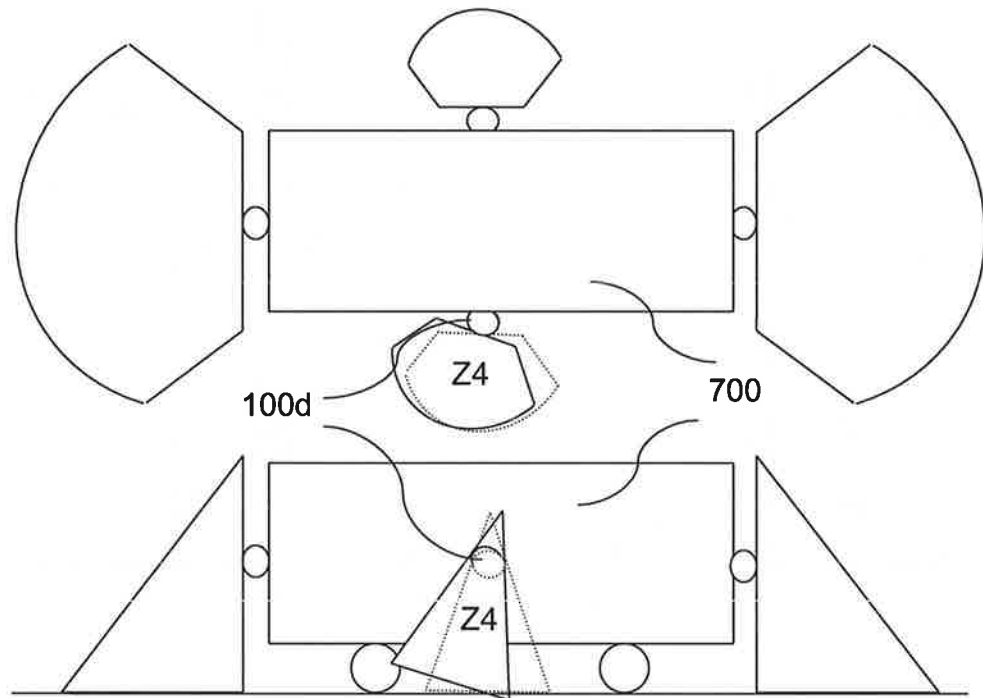


Fig.13

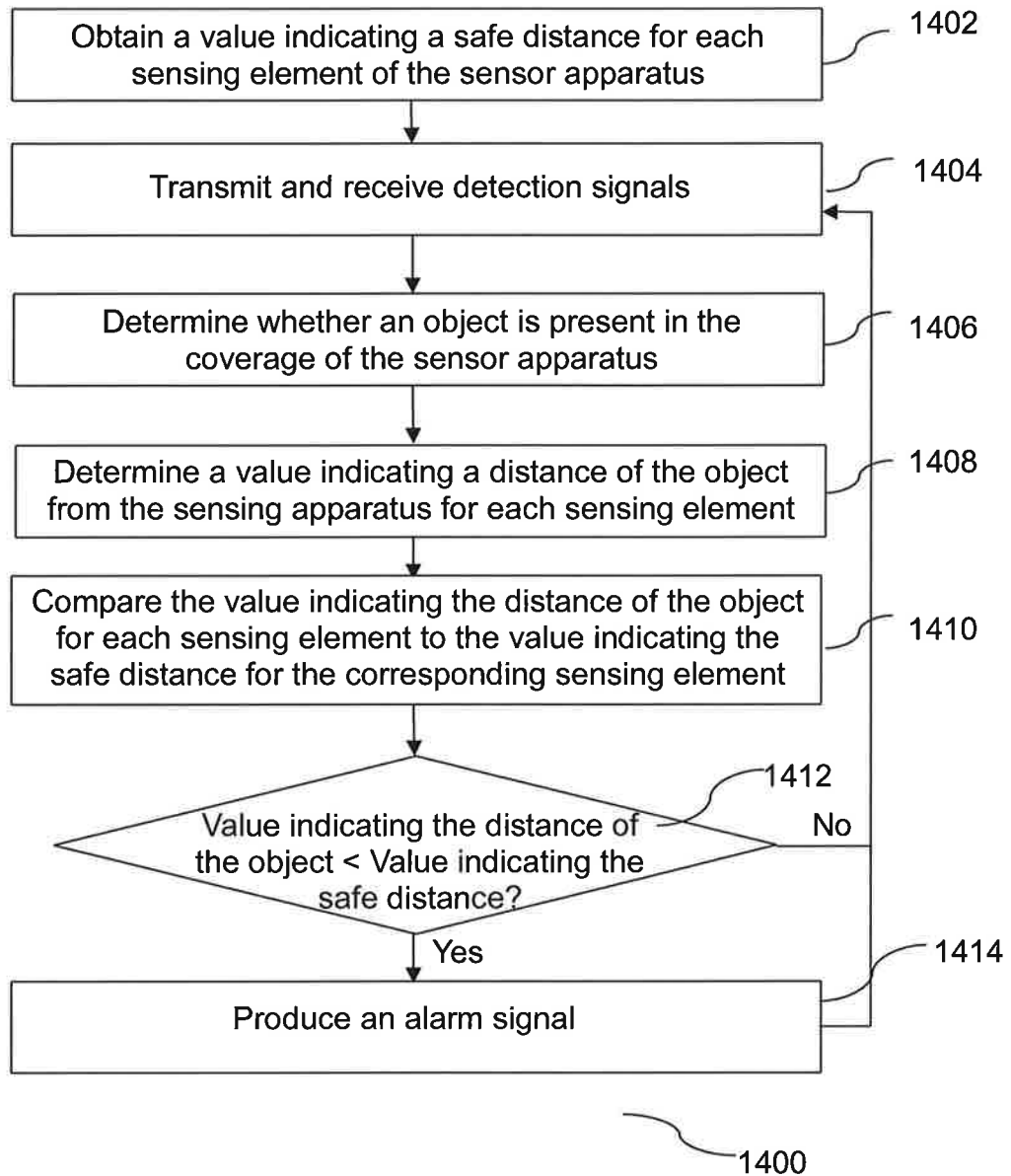


Fig.14