

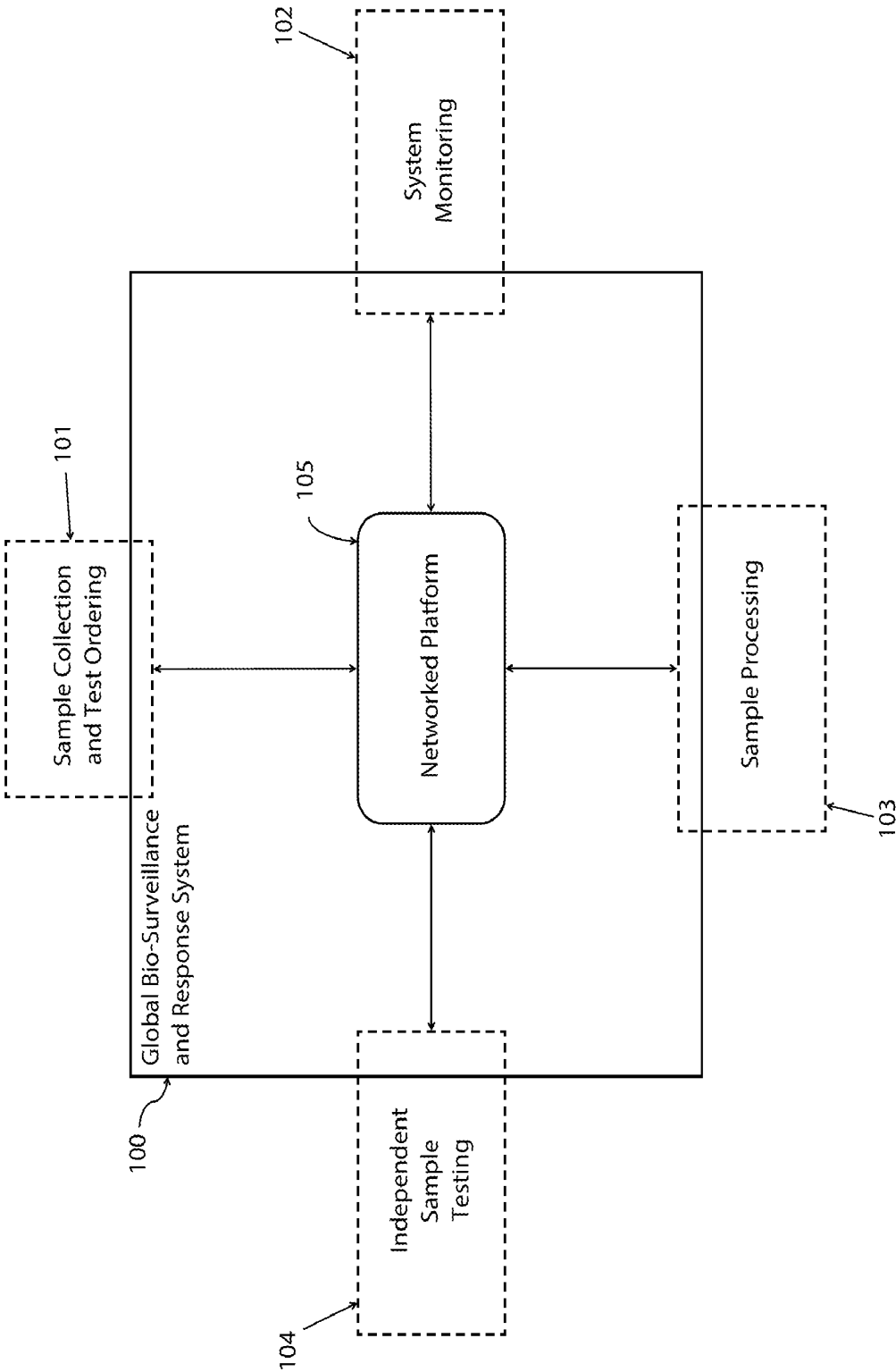


FIG. 1

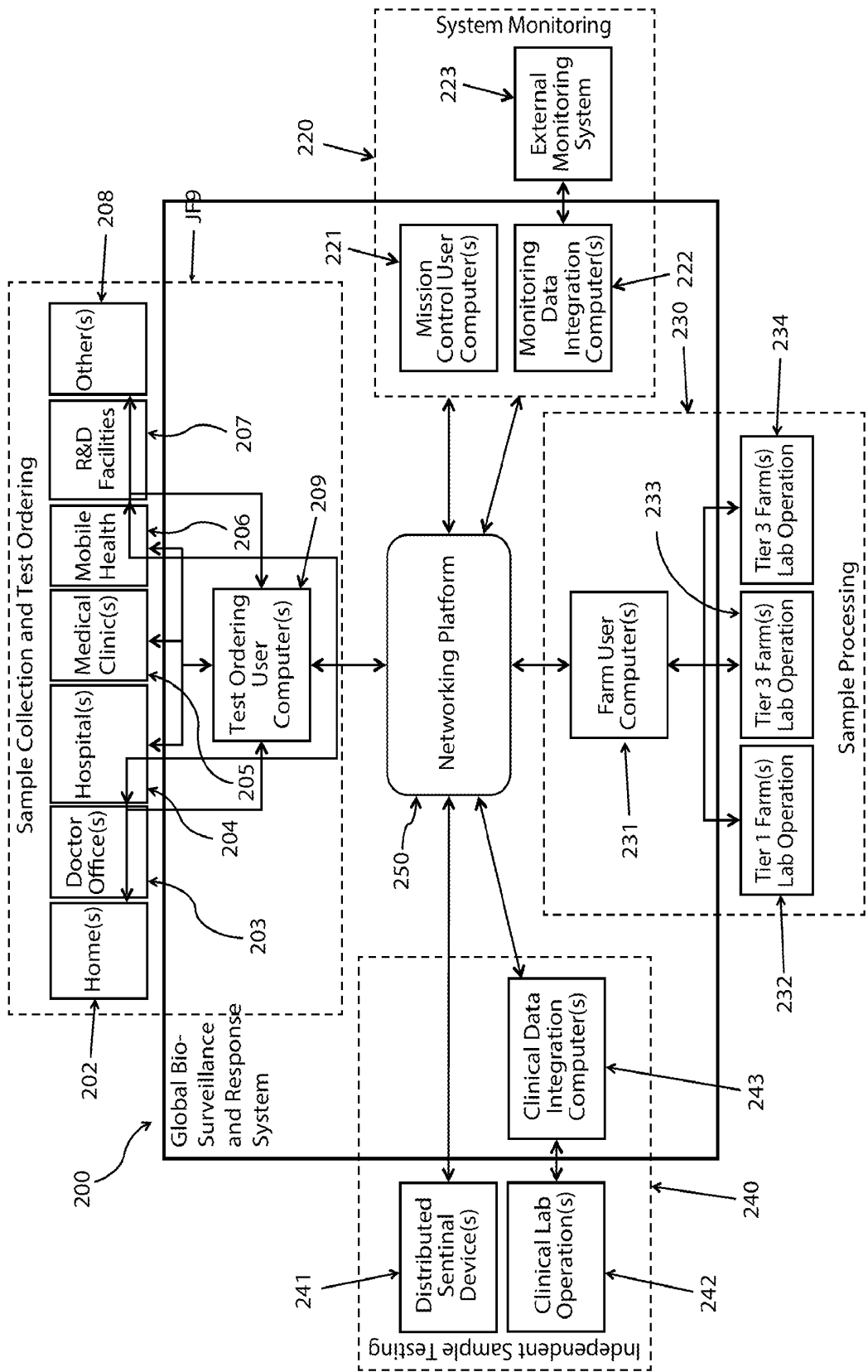


FIG. 2A

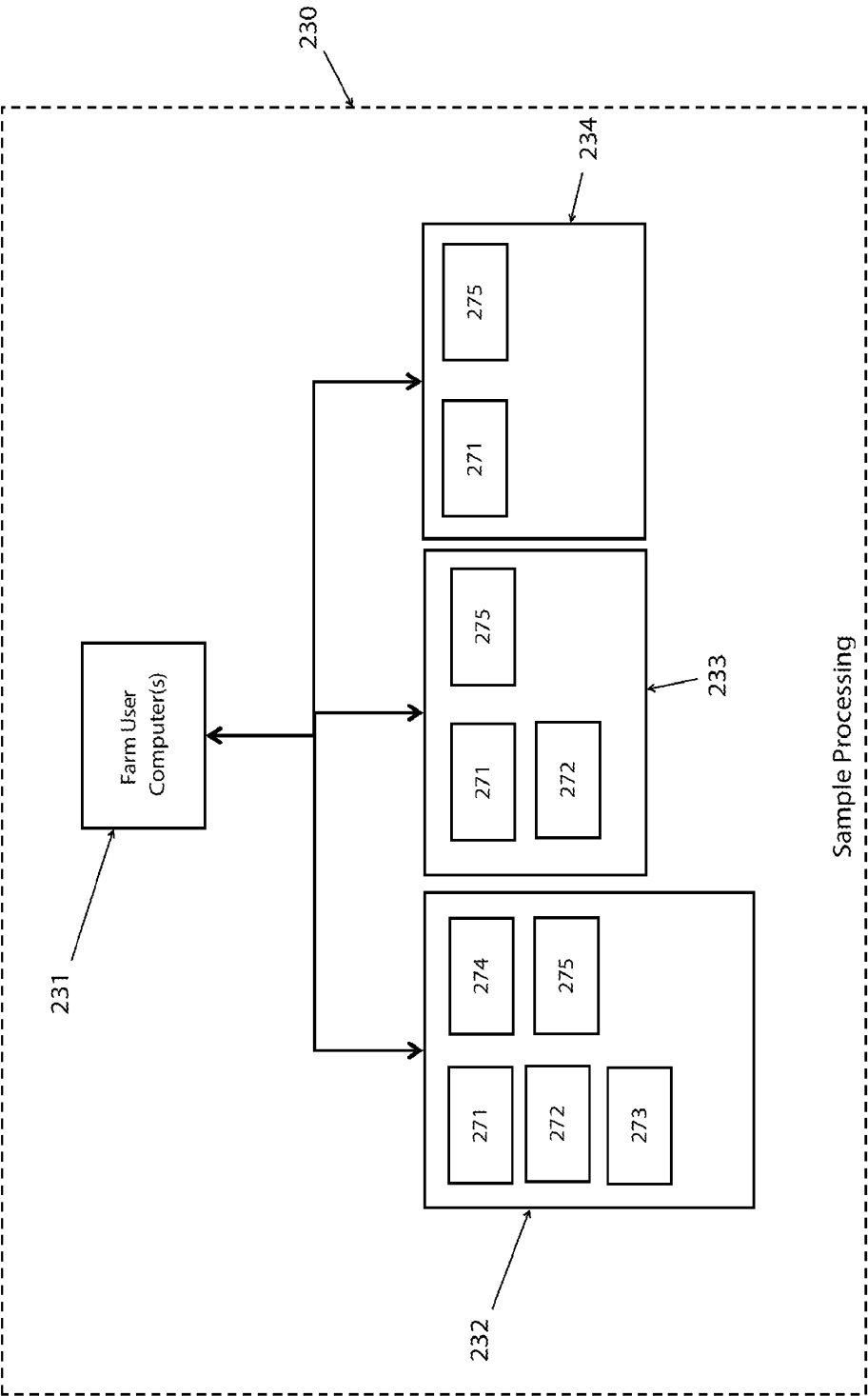


FIG. 2B

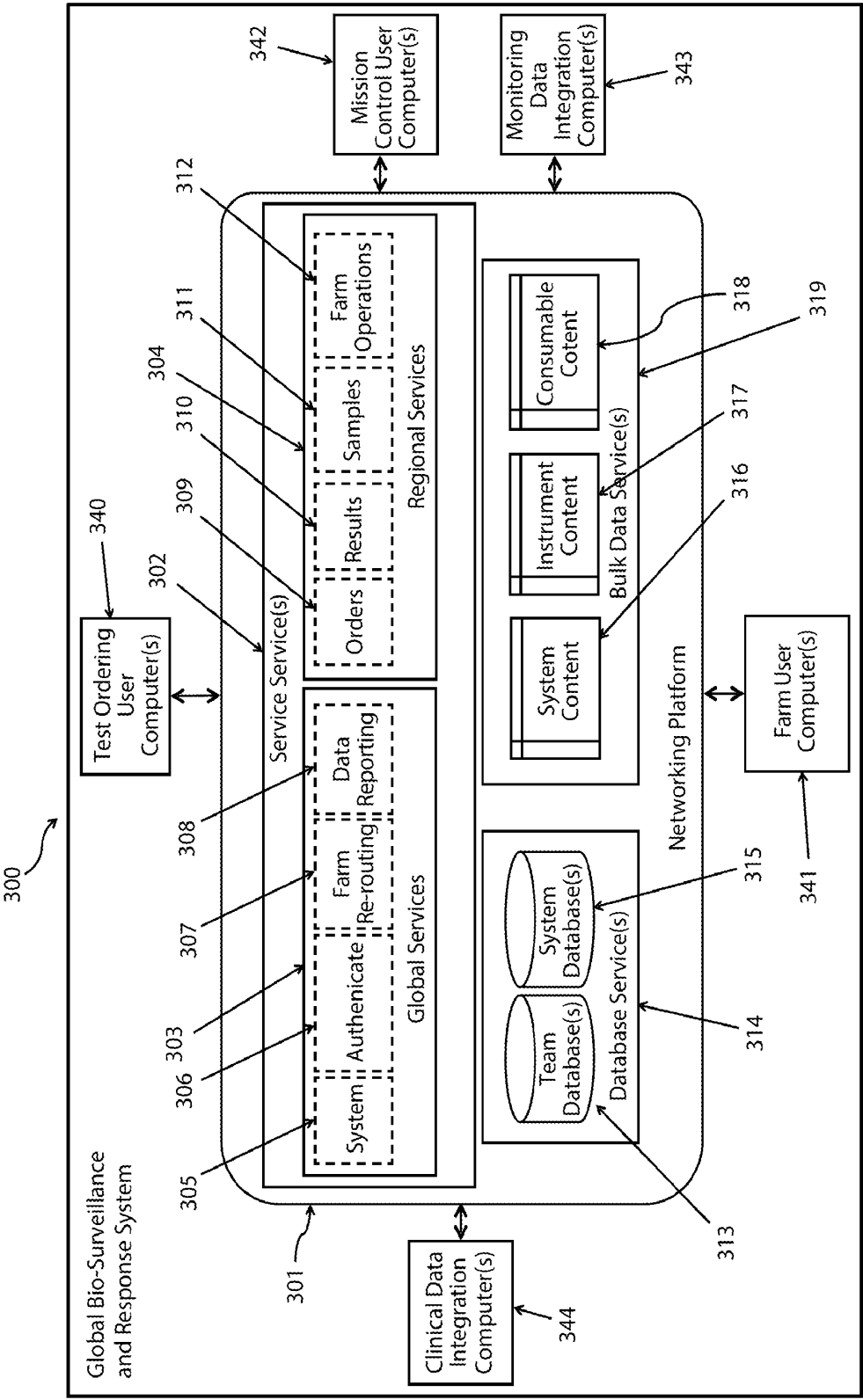


FIG. 3A

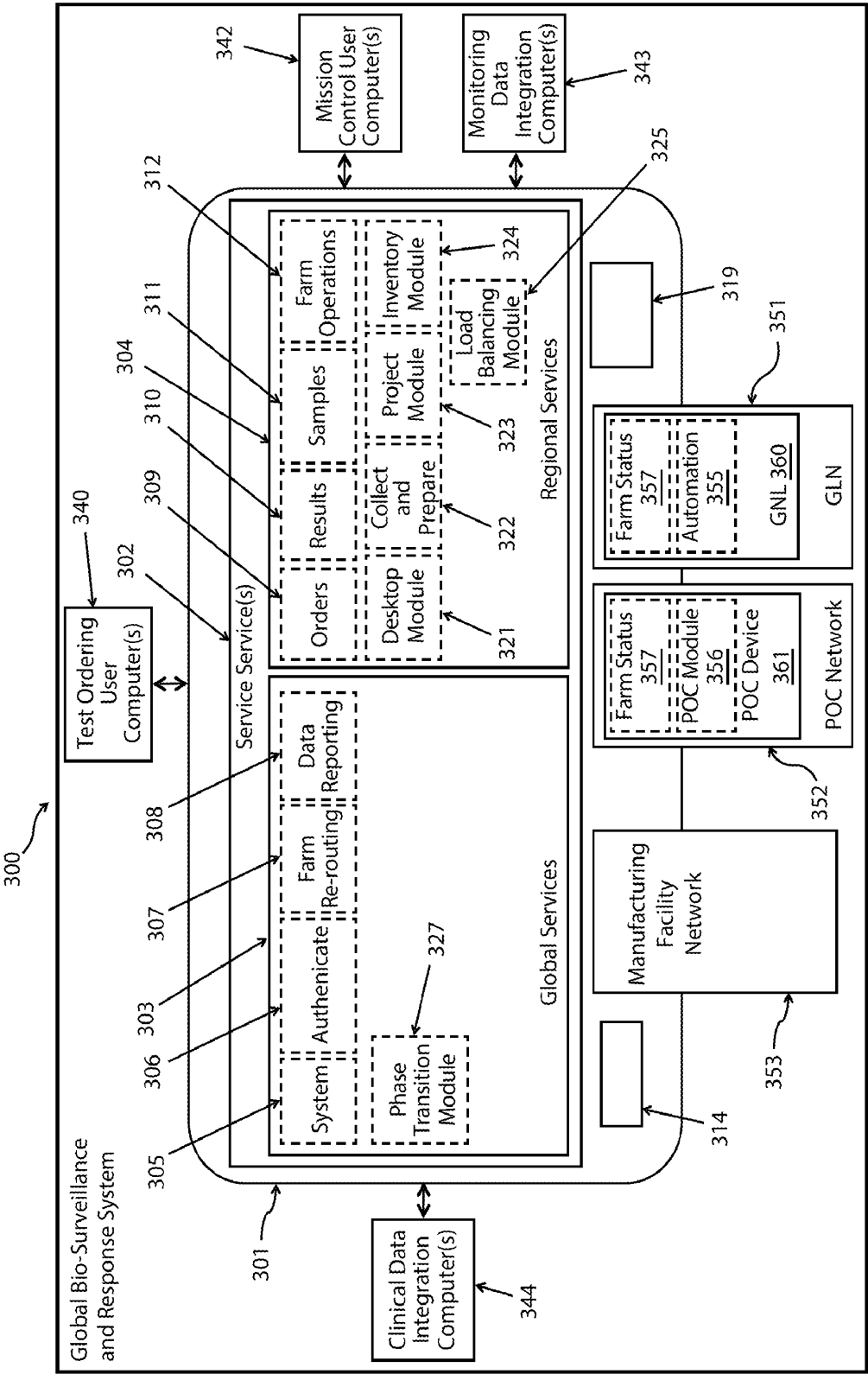


FIG. 3B

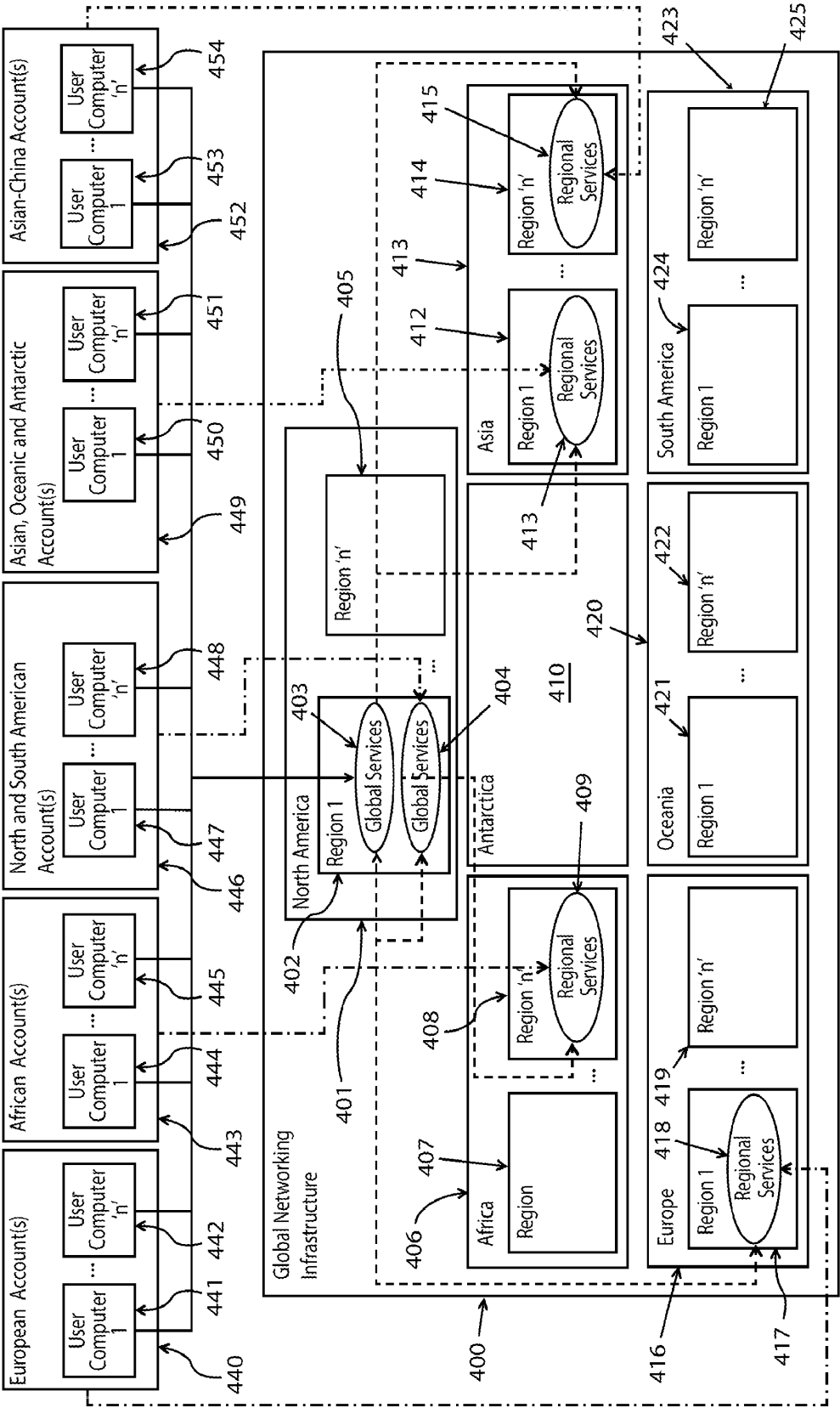


FIG. 4

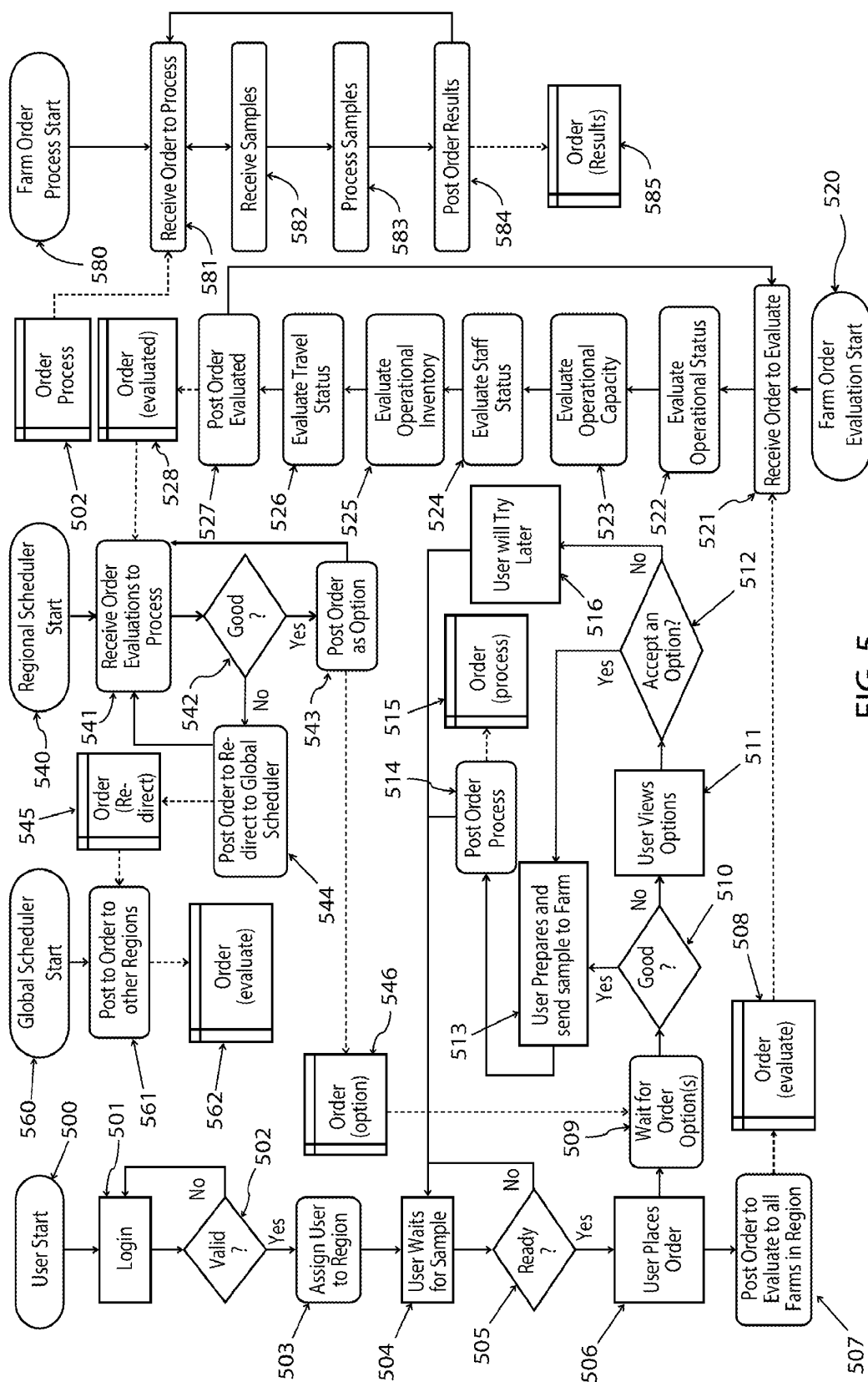


FIG. 5

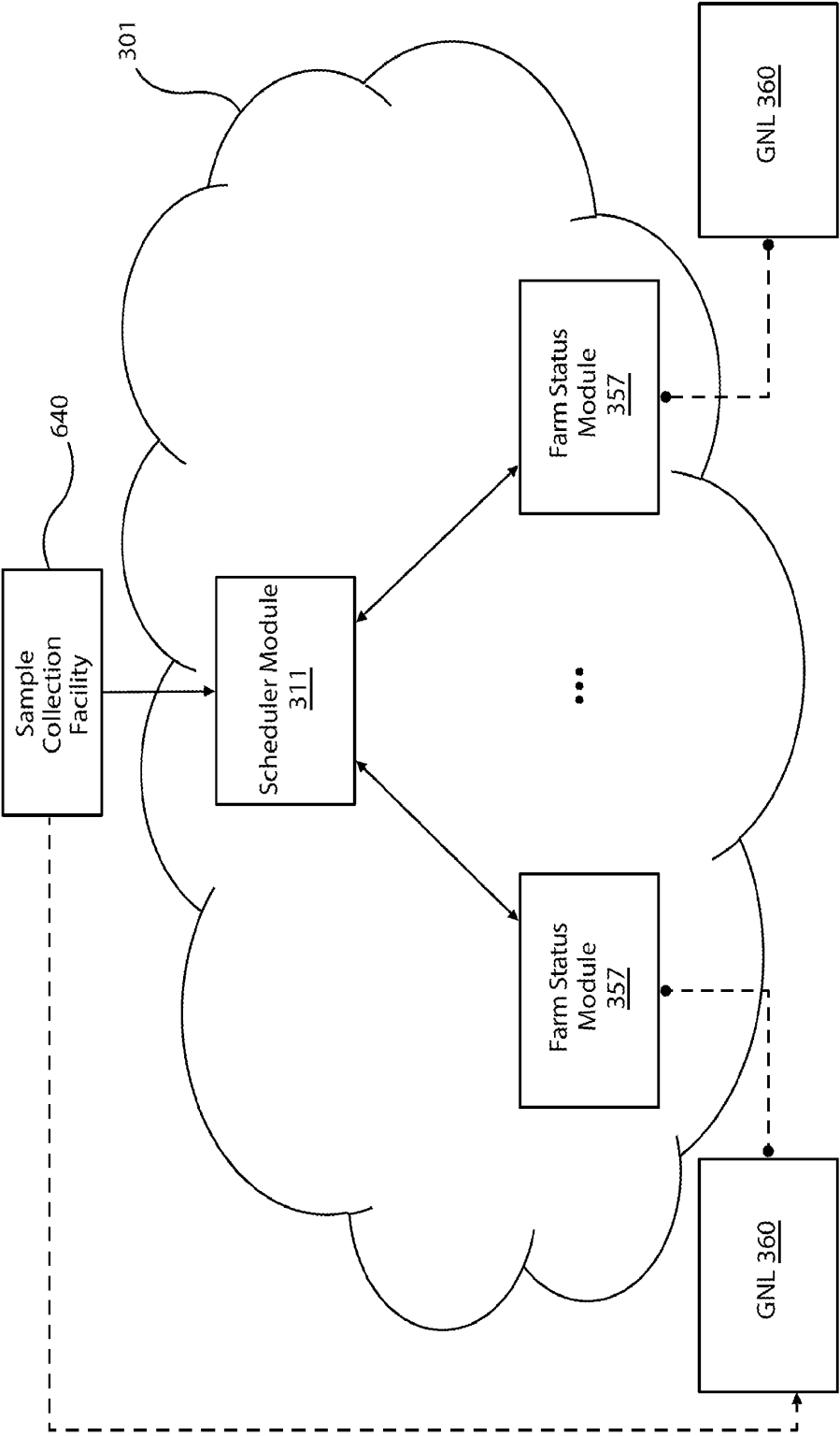
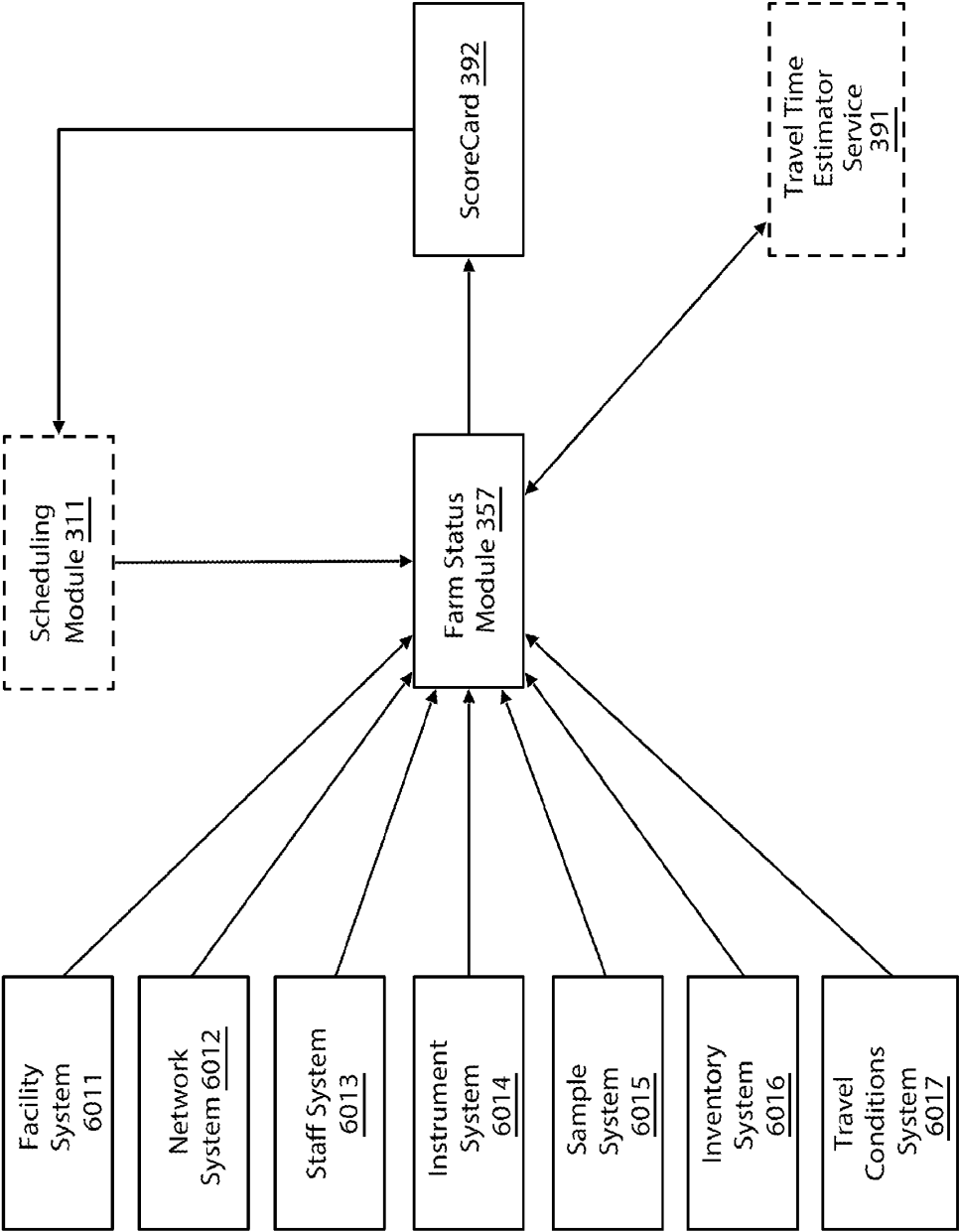


FIG. 6A



Surge Farm producing its health Score and Time to Result on Request

FIG. 6B

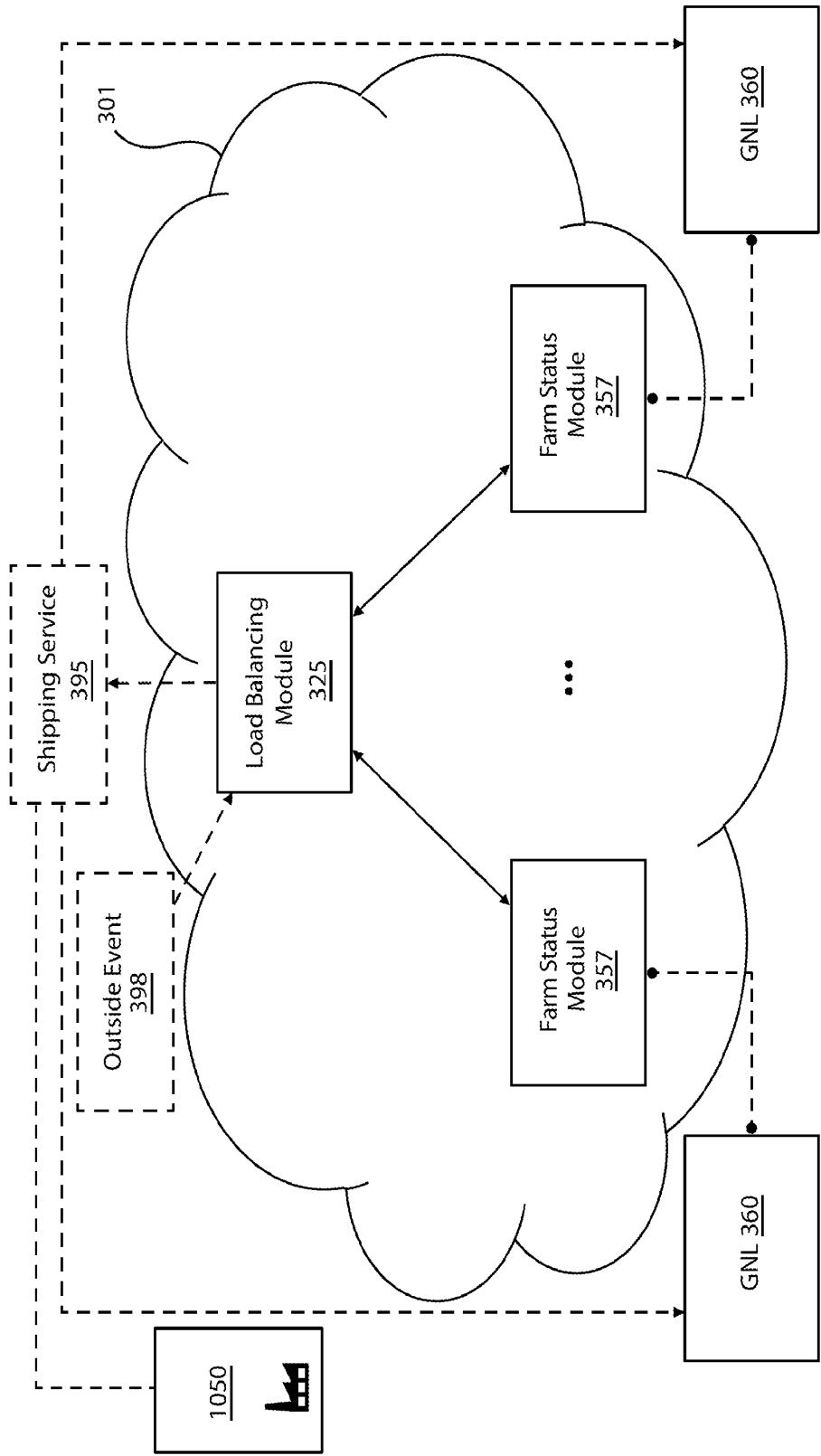


FIG. 6C

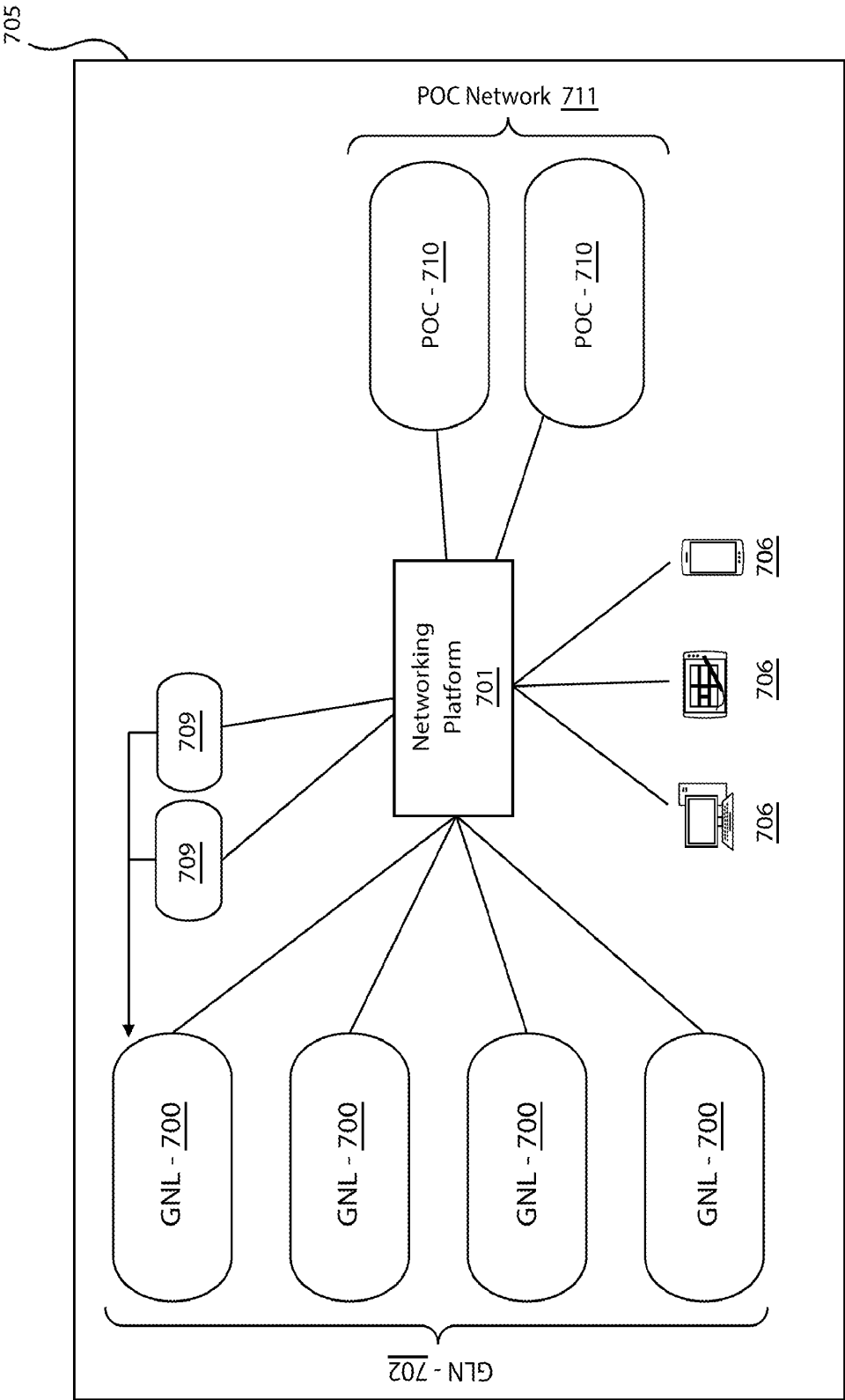


FIG. 7

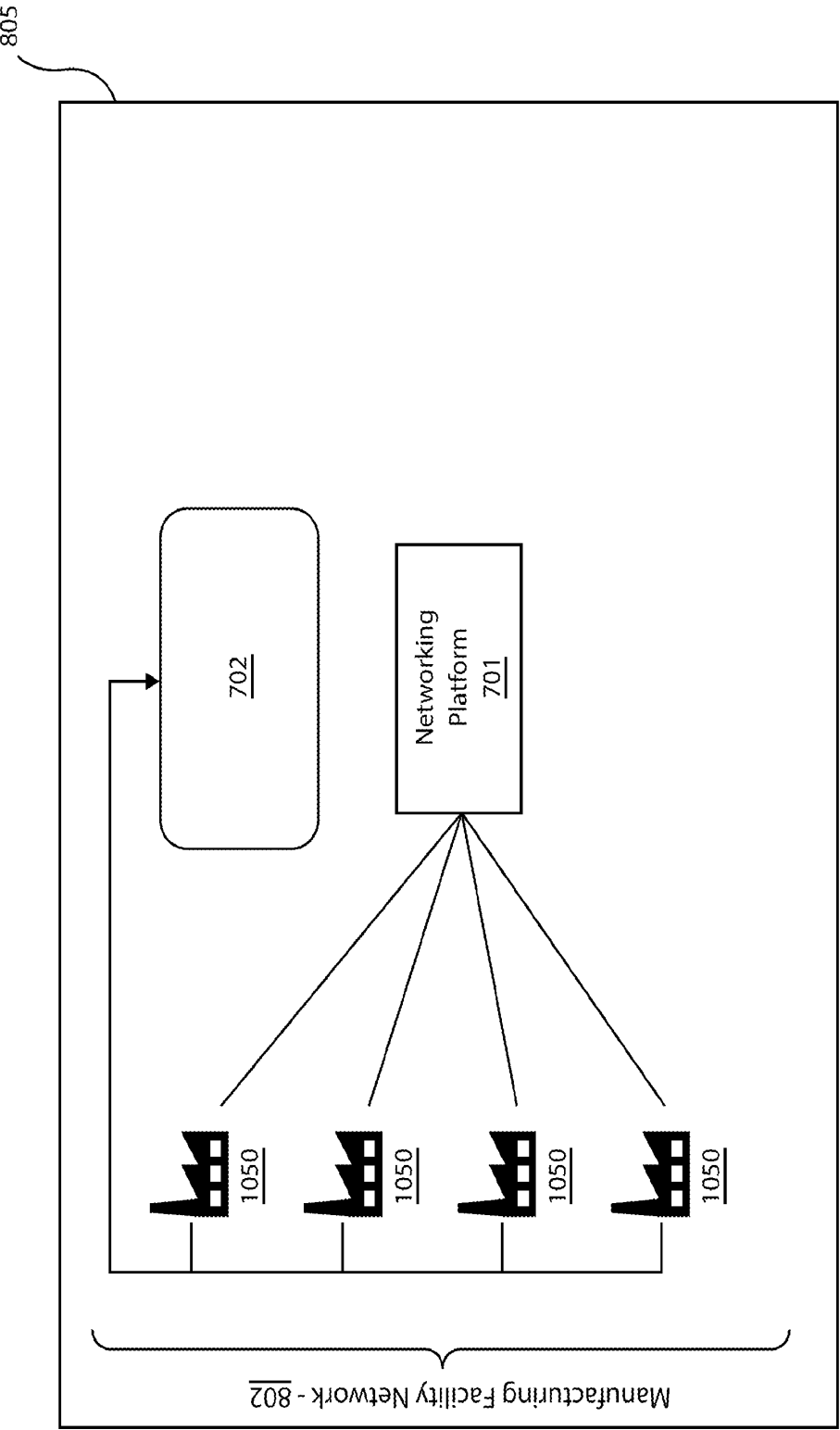


FIG. 8

600

Total Samples	Positive Rate	Positive Samples	Pooling Factor	Pooled Samples to be Tested	Positive Pooled Samples	Resting Rate	Retest Load	Total Testing Load
10,000	1%	100	10	1,000	96	10%	960	1,960
10,000	5%	500	10	1,000	401	40%	4,010	5,010
10,000	10%	1,000	10	1,000	651	65%	6,510	7,510
10,000	20%	2,000	10	1,000	893	89%	8,930	9,930
10,000	30%	3,000	10	1,000	972	97%	9,720	10,720

601

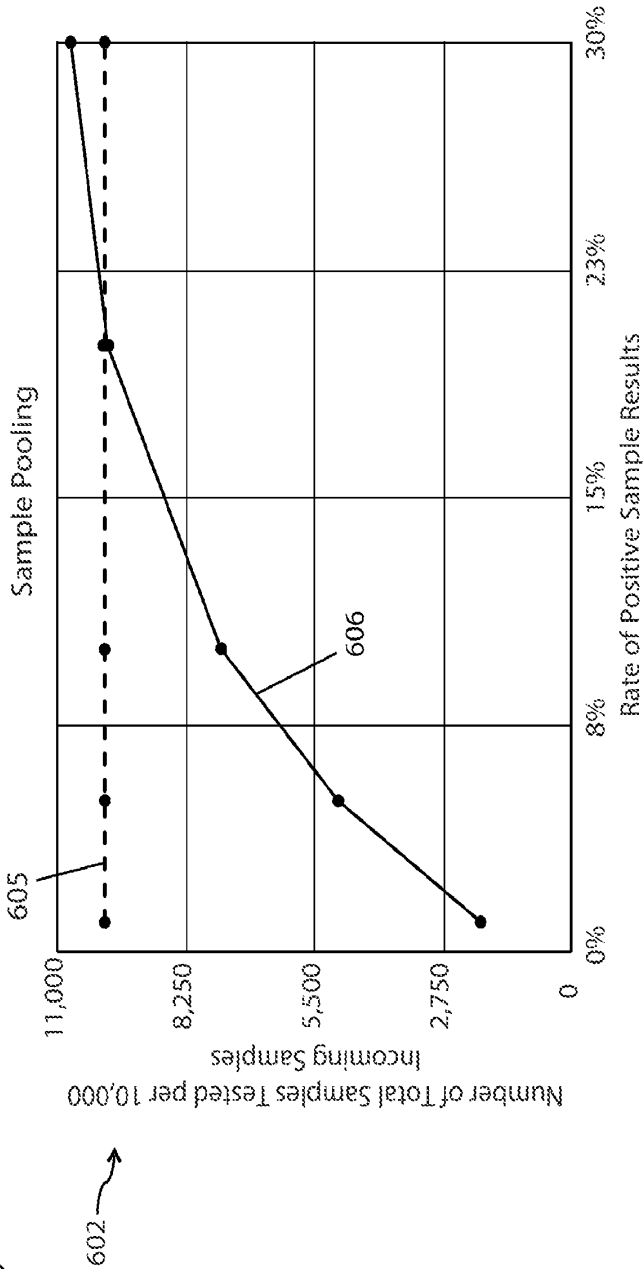


FIG. 9

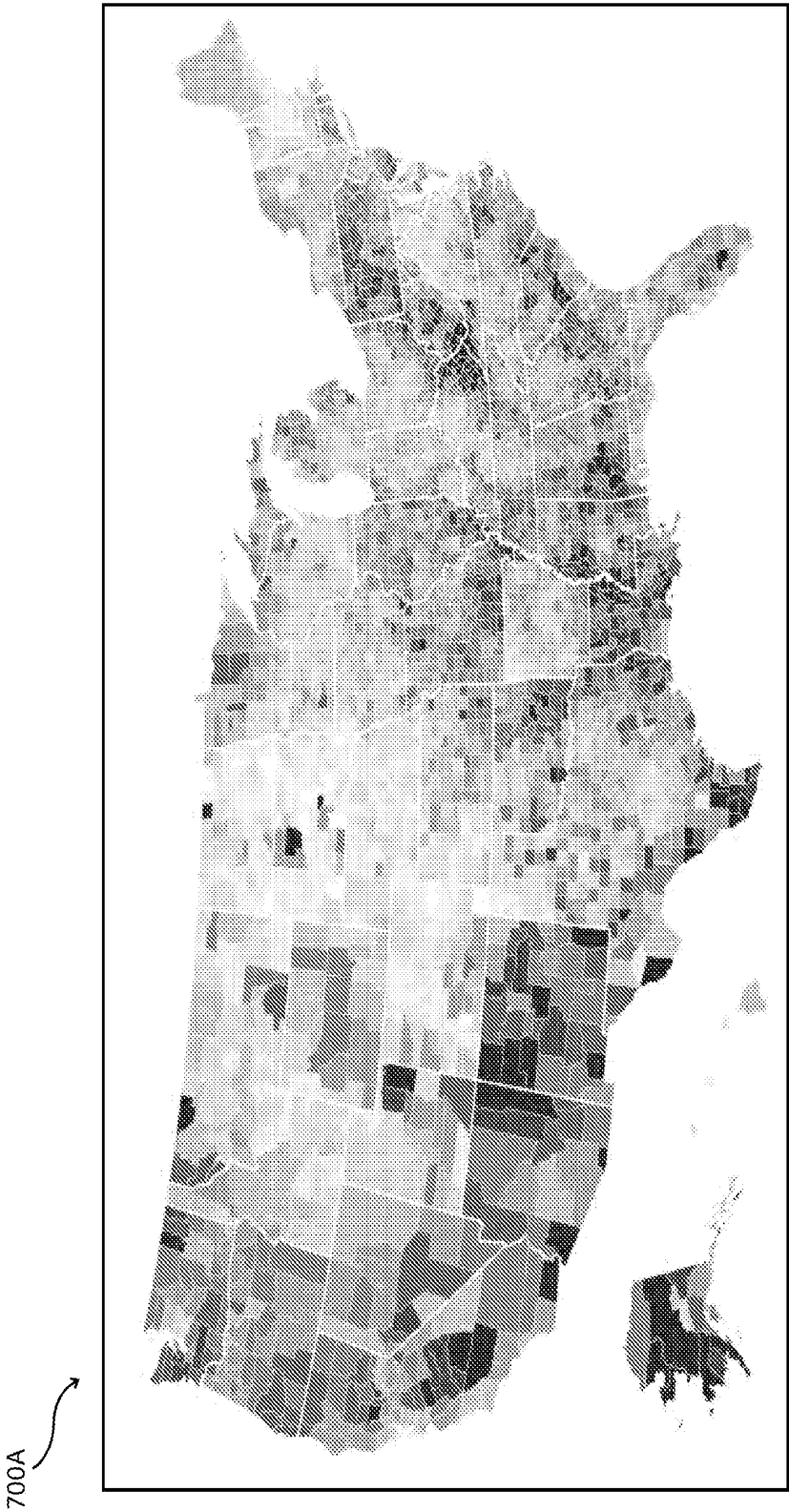


FIG. 10A

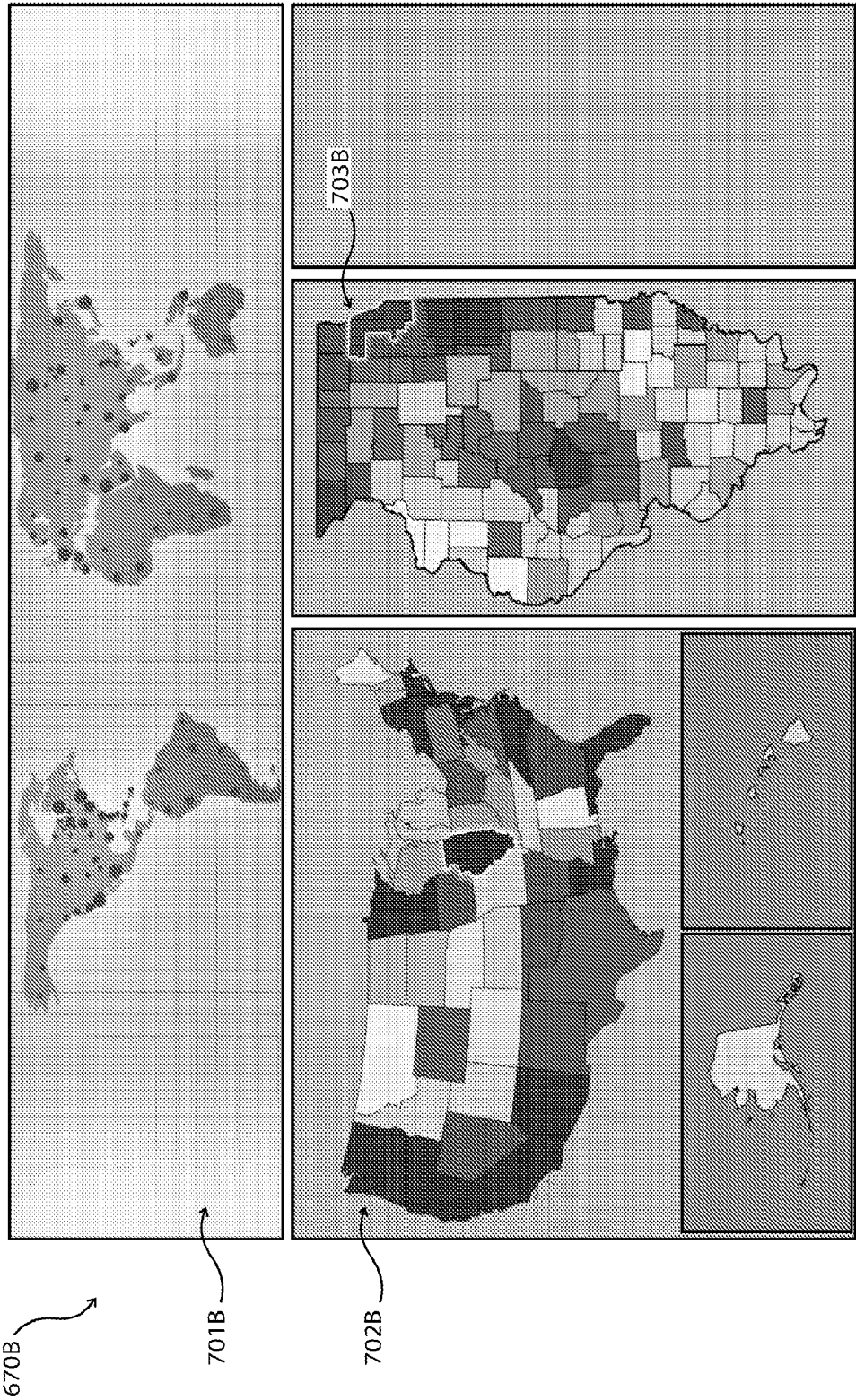


FIG. 10B

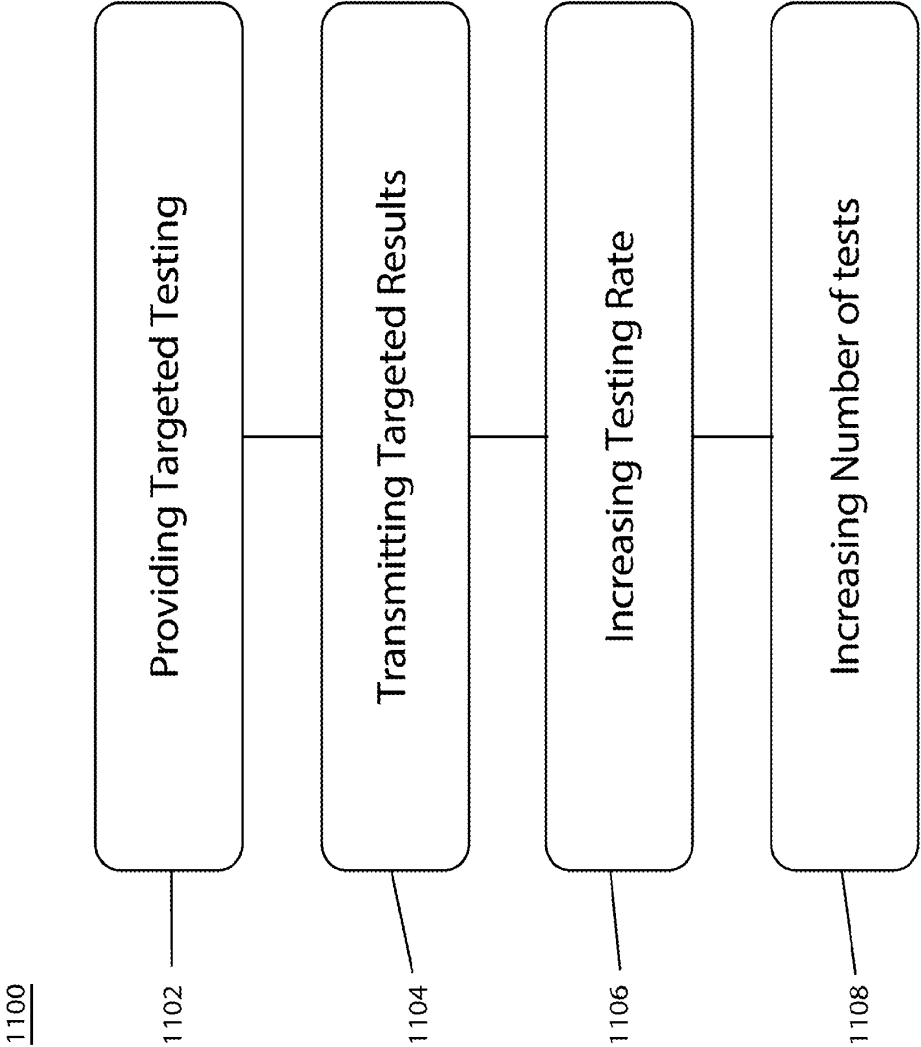


FIG. 11

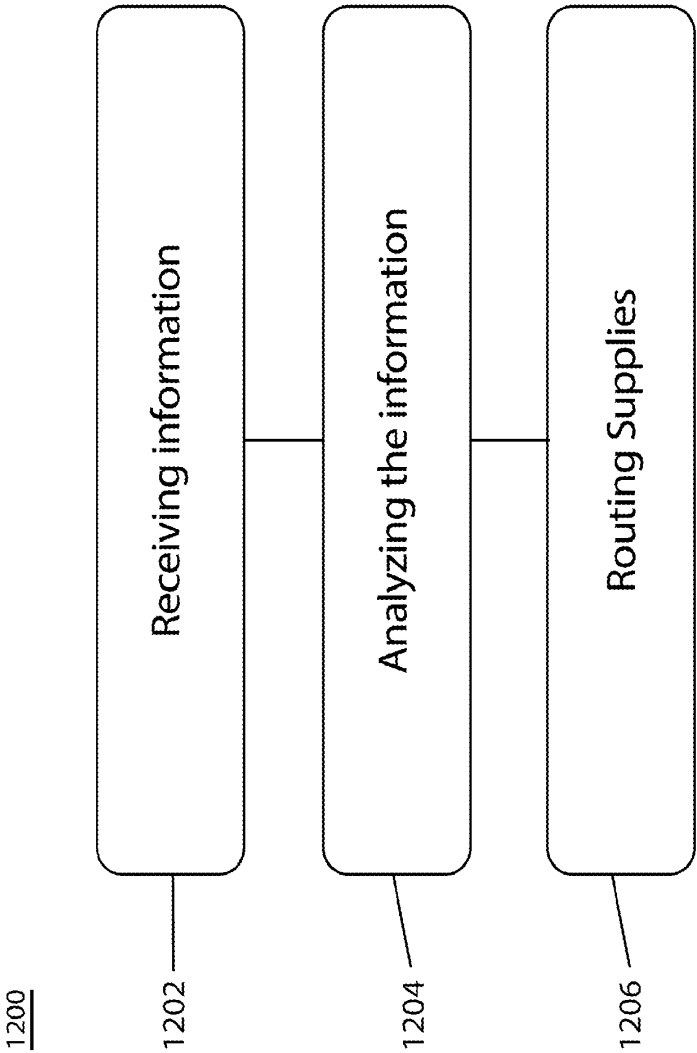


FIG. 12

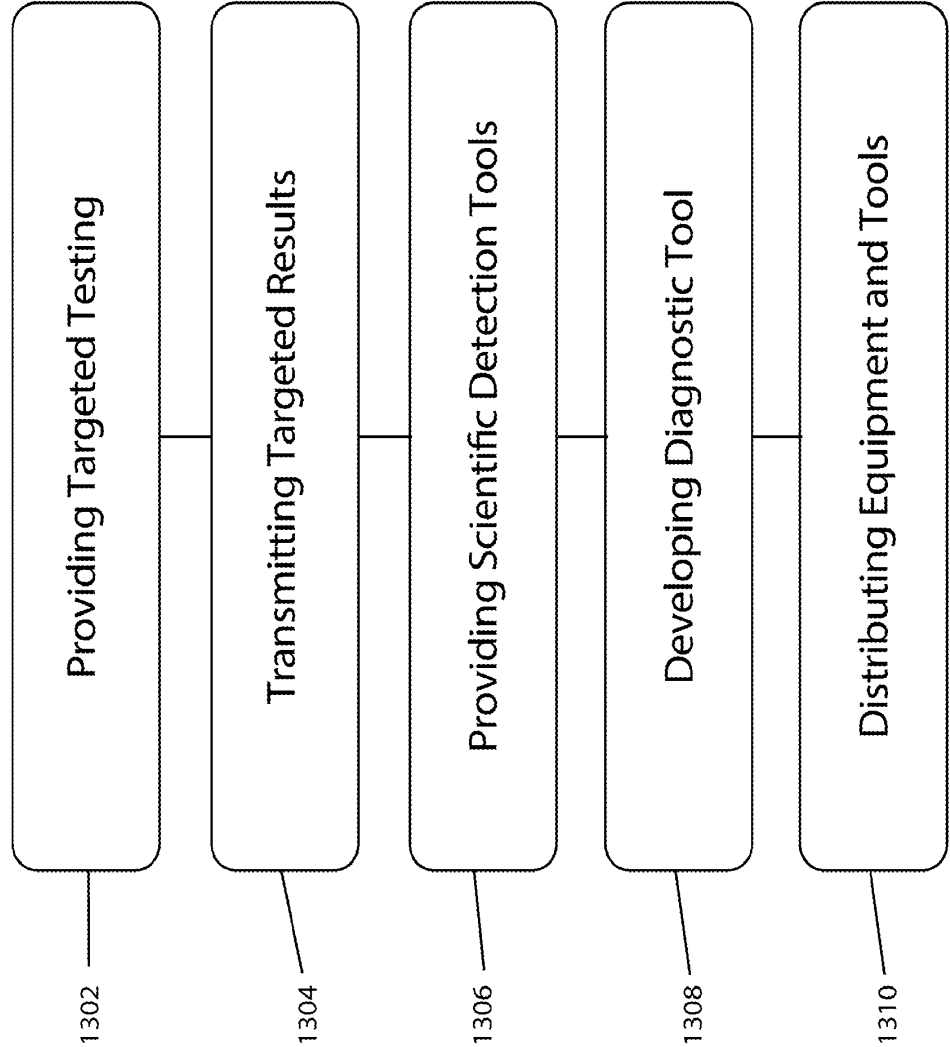


FIG. 13

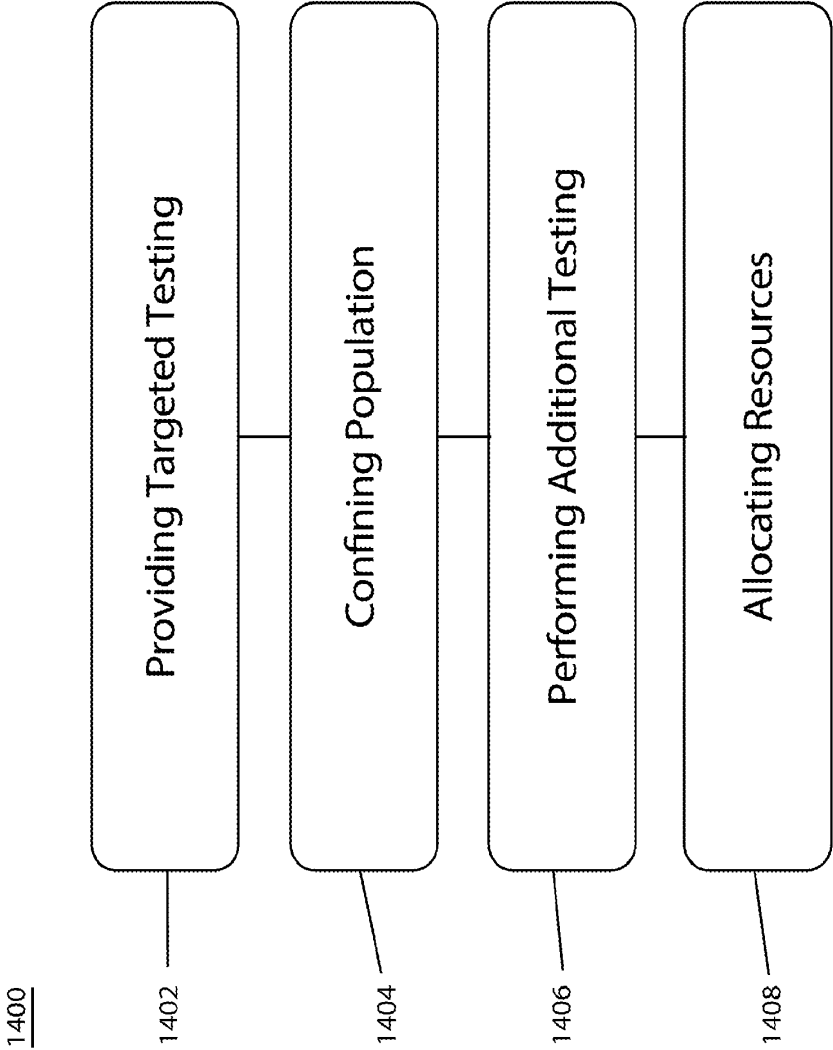


FIG. 14

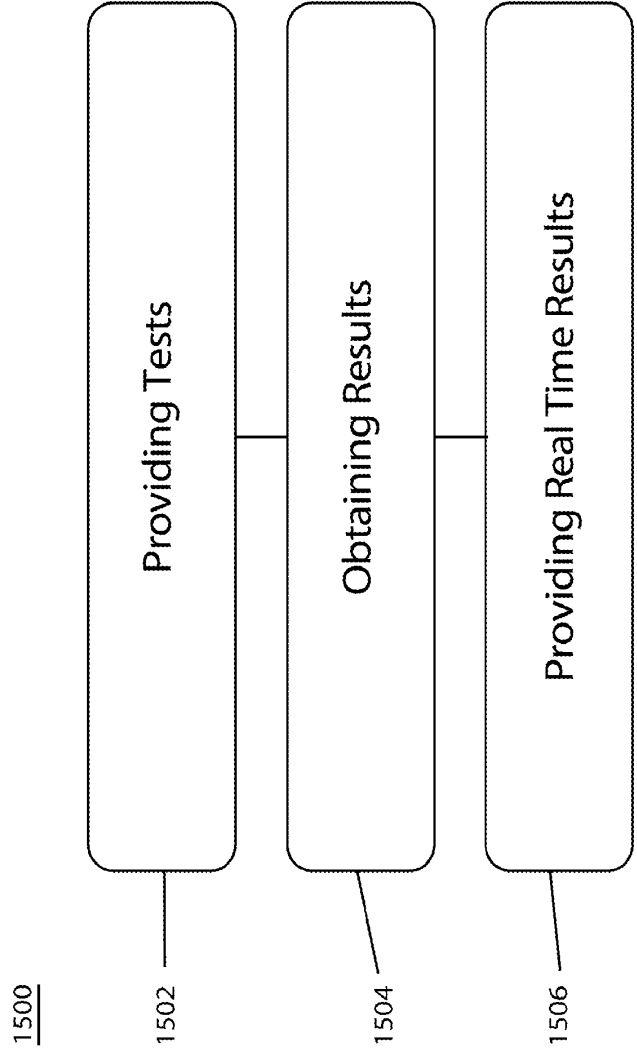


FIG. 15