

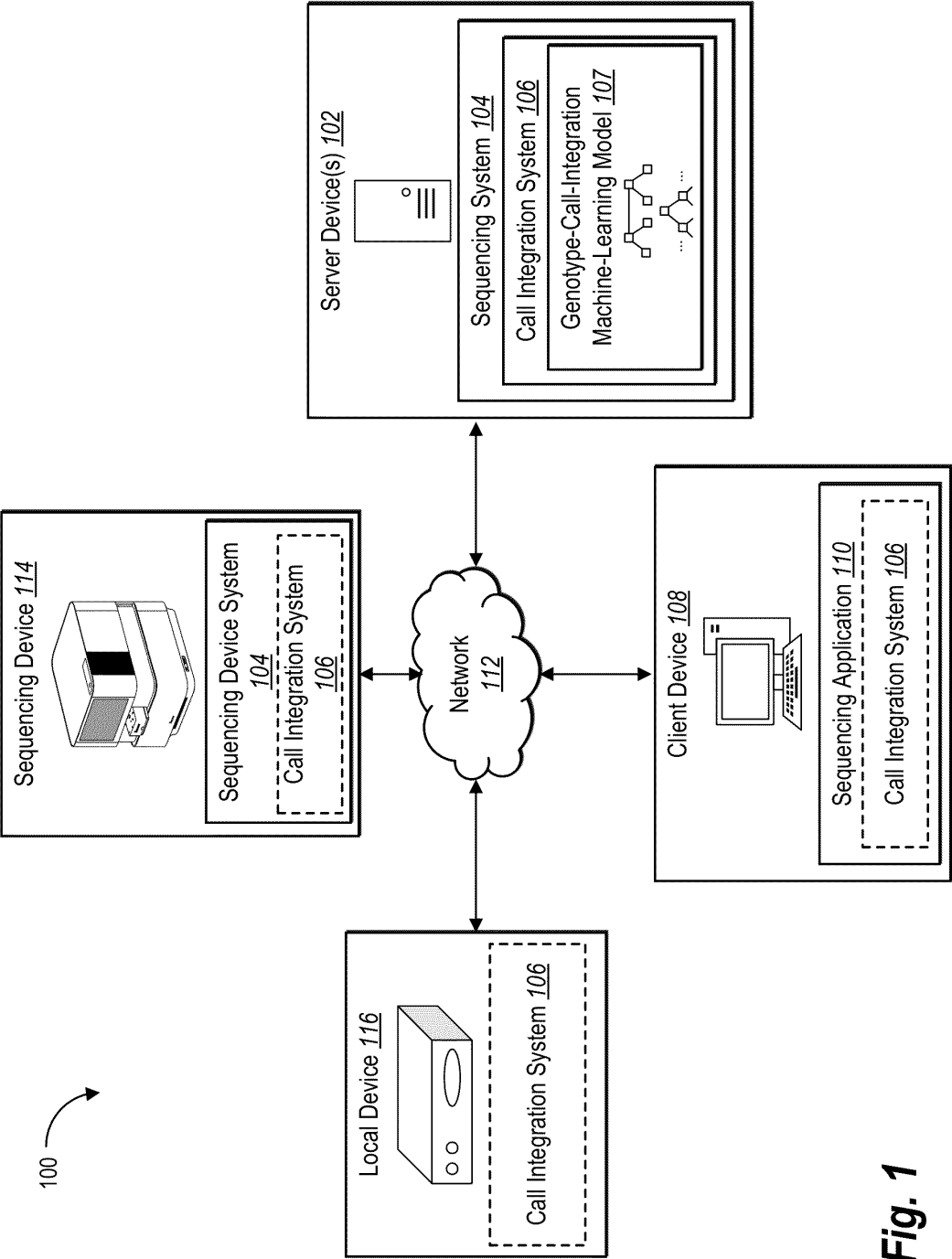


Fig. 1

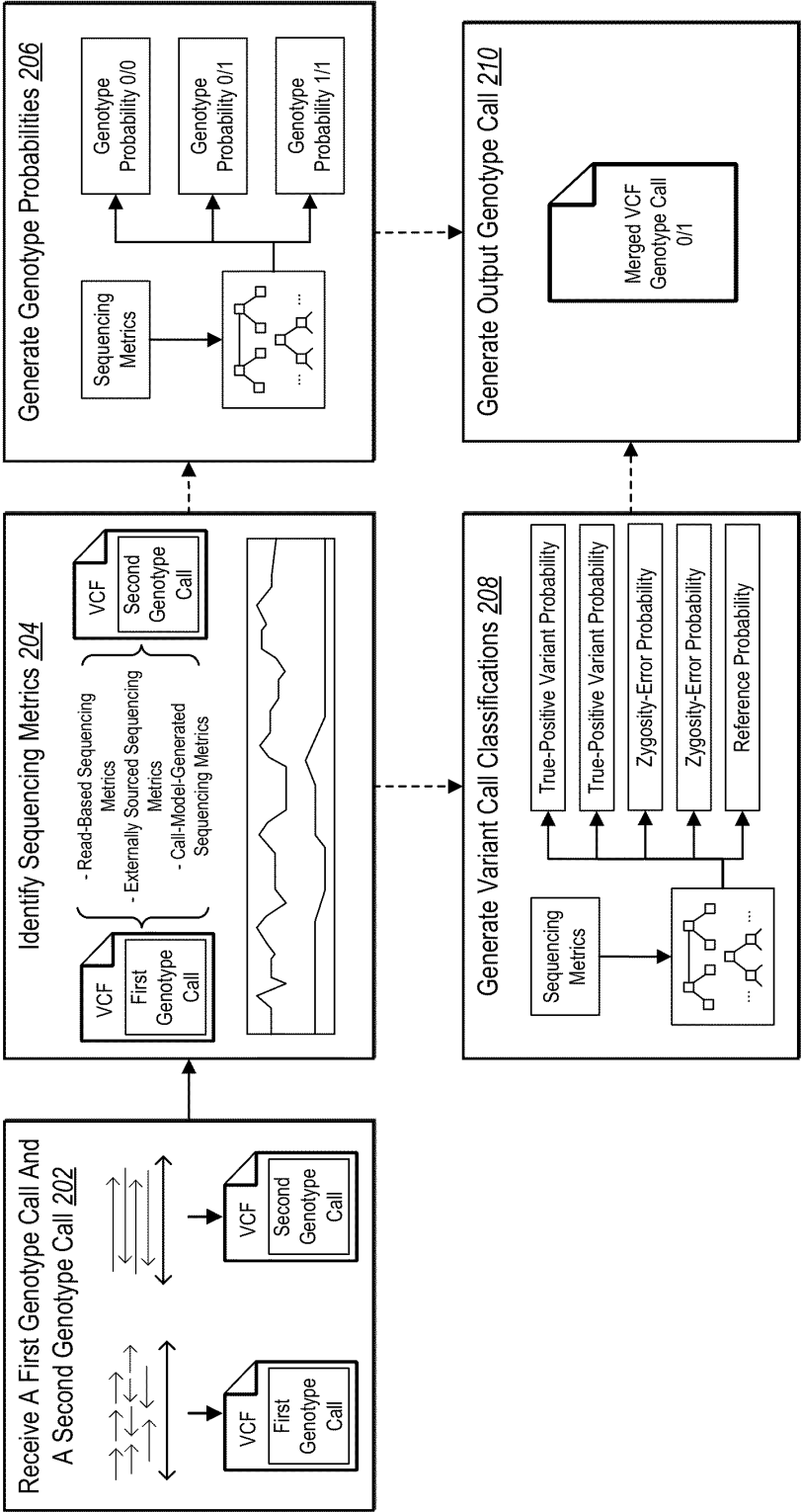
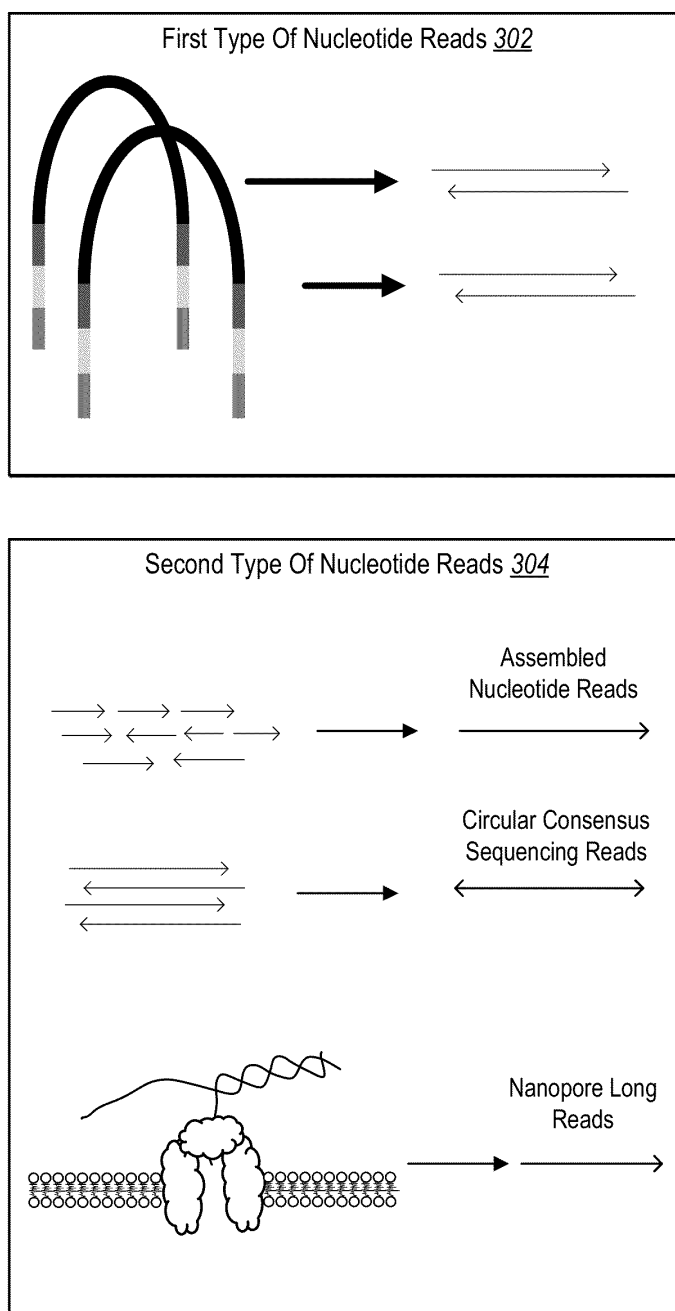


Fig. 2

3 / 17

**Fig. 3**

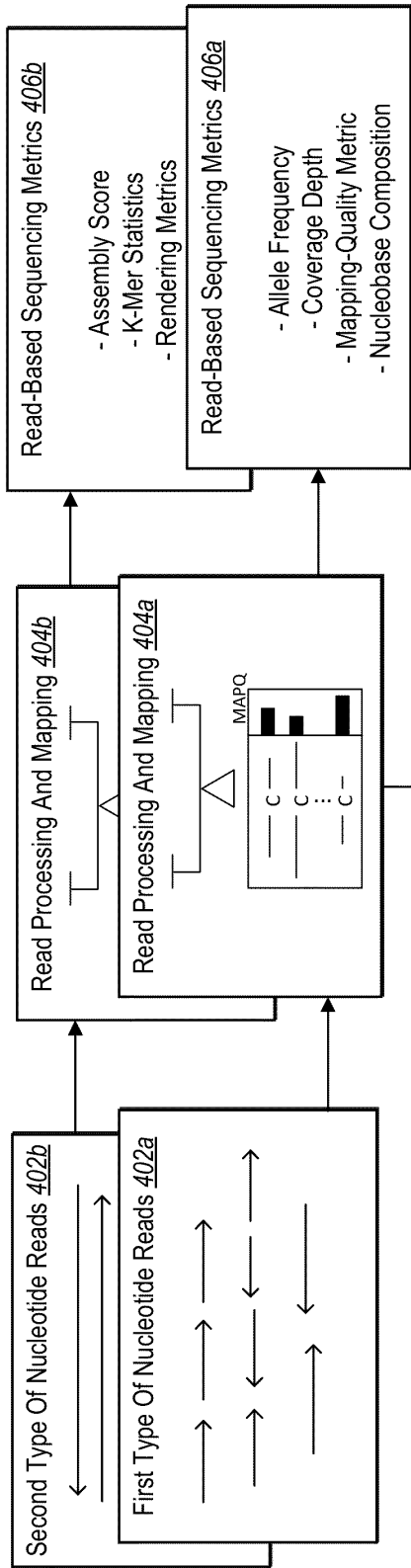


Fig. 4A

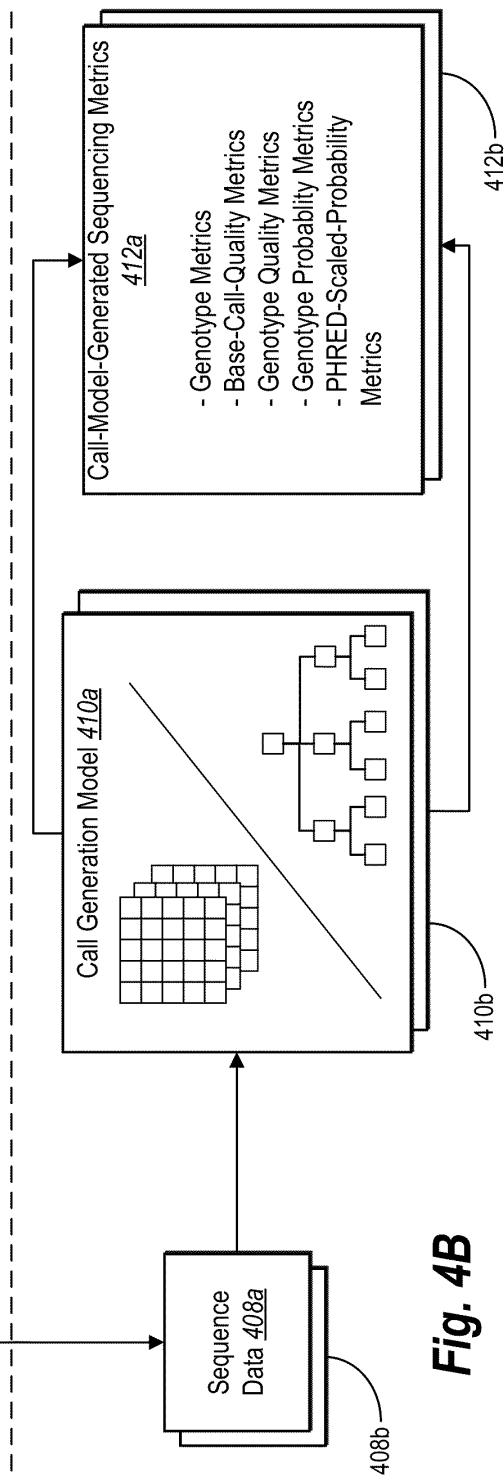


Fig. 4B

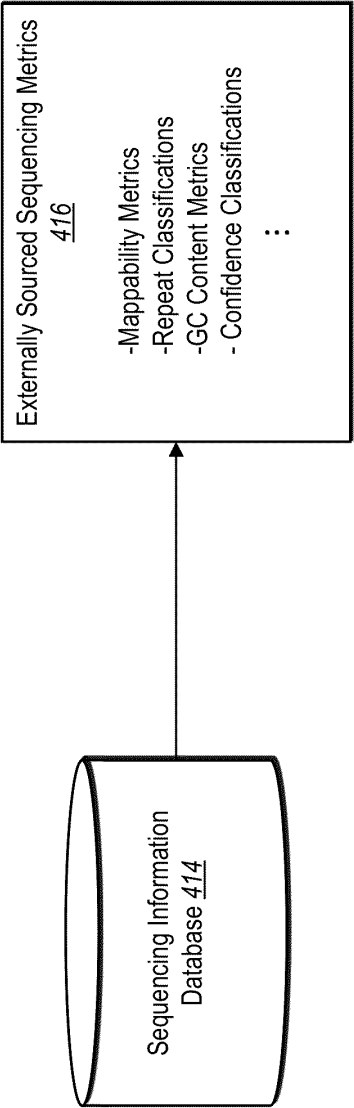


Fig. 4C

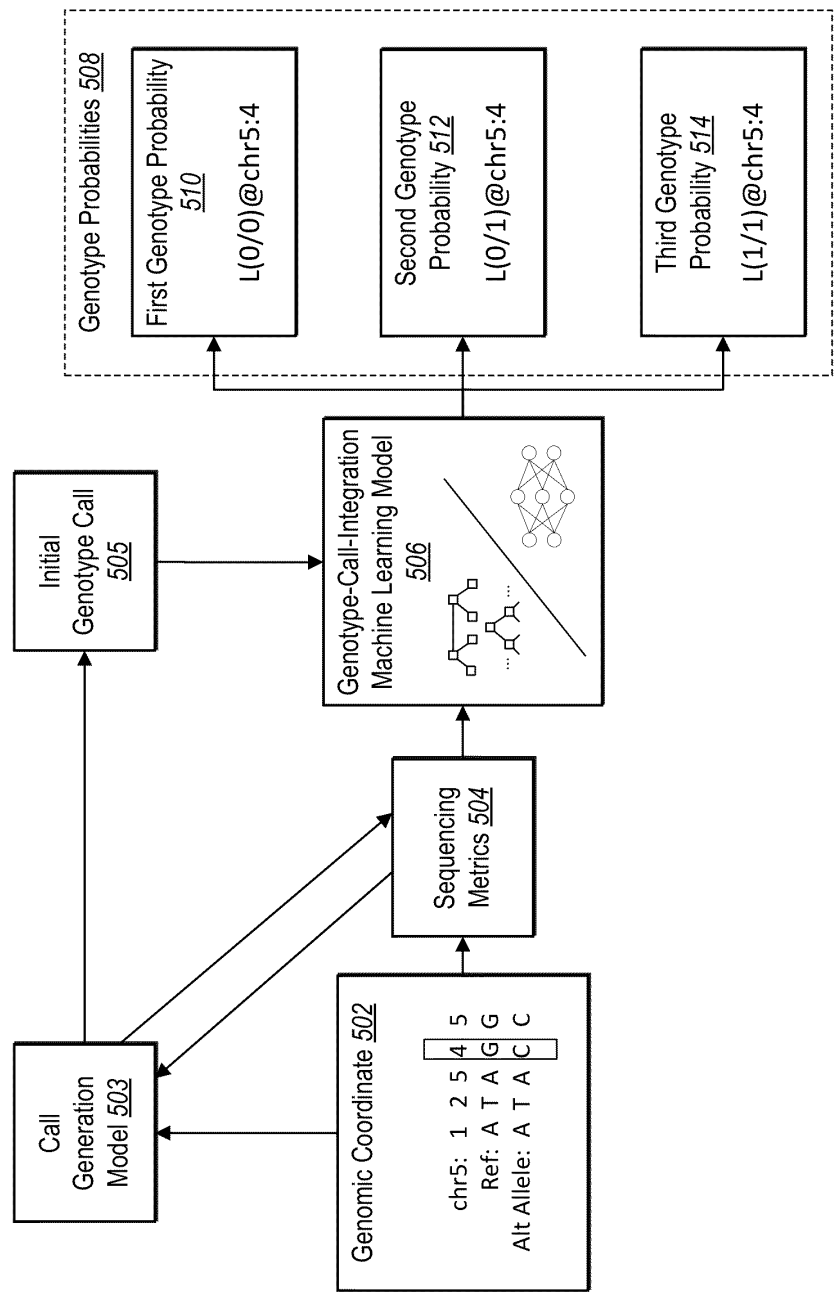


Fig. 5A

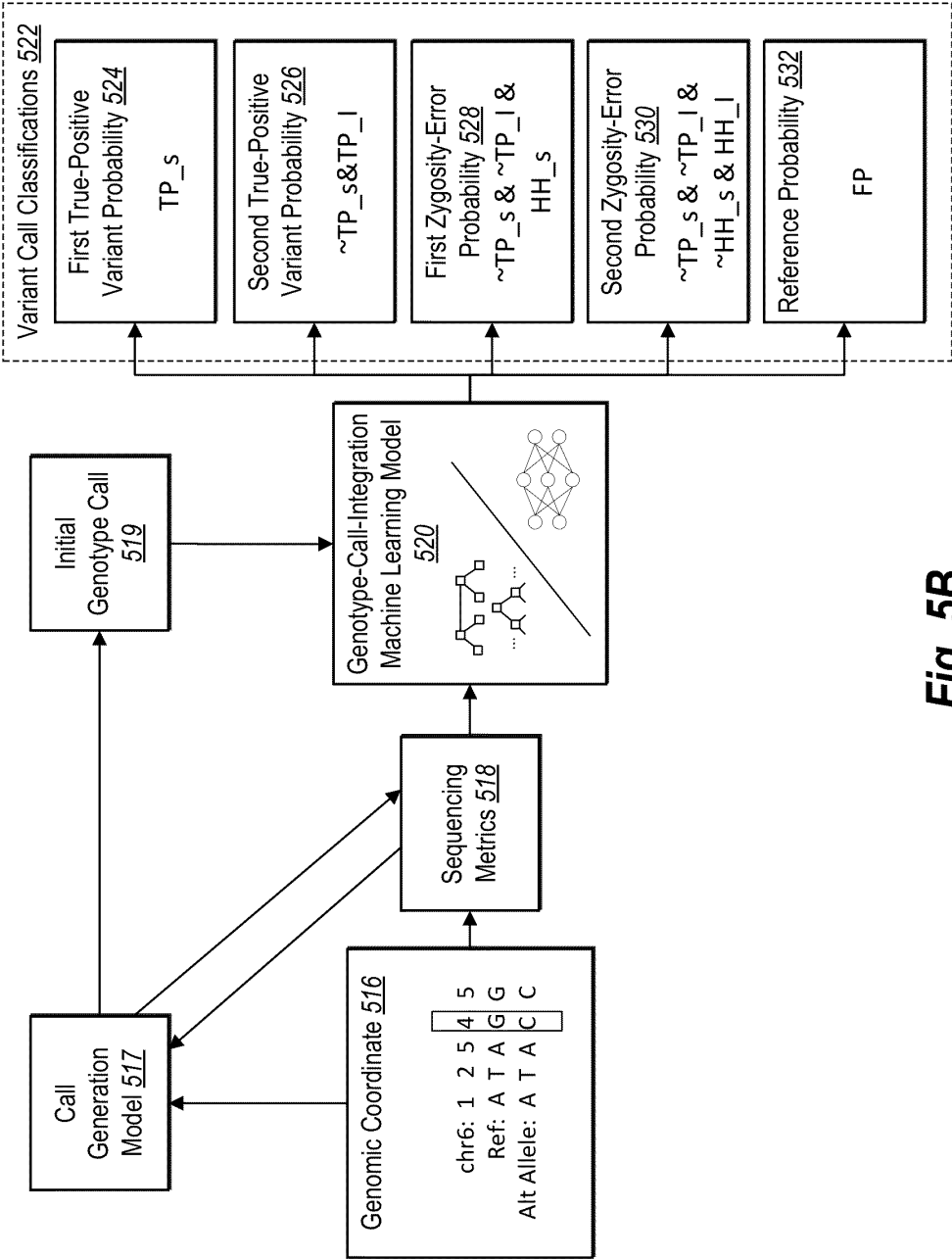


Fig. 5B

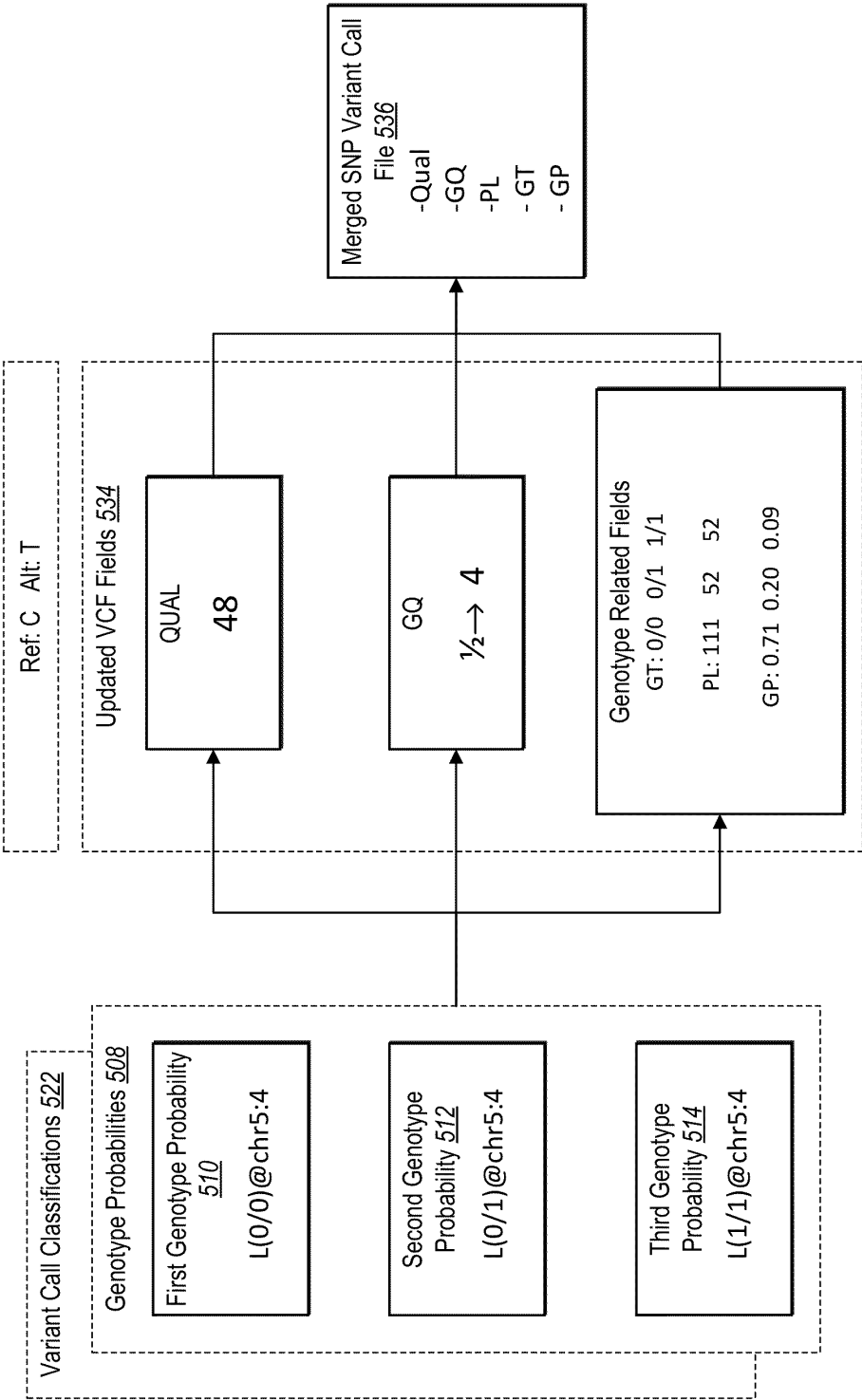


Fig. 5C

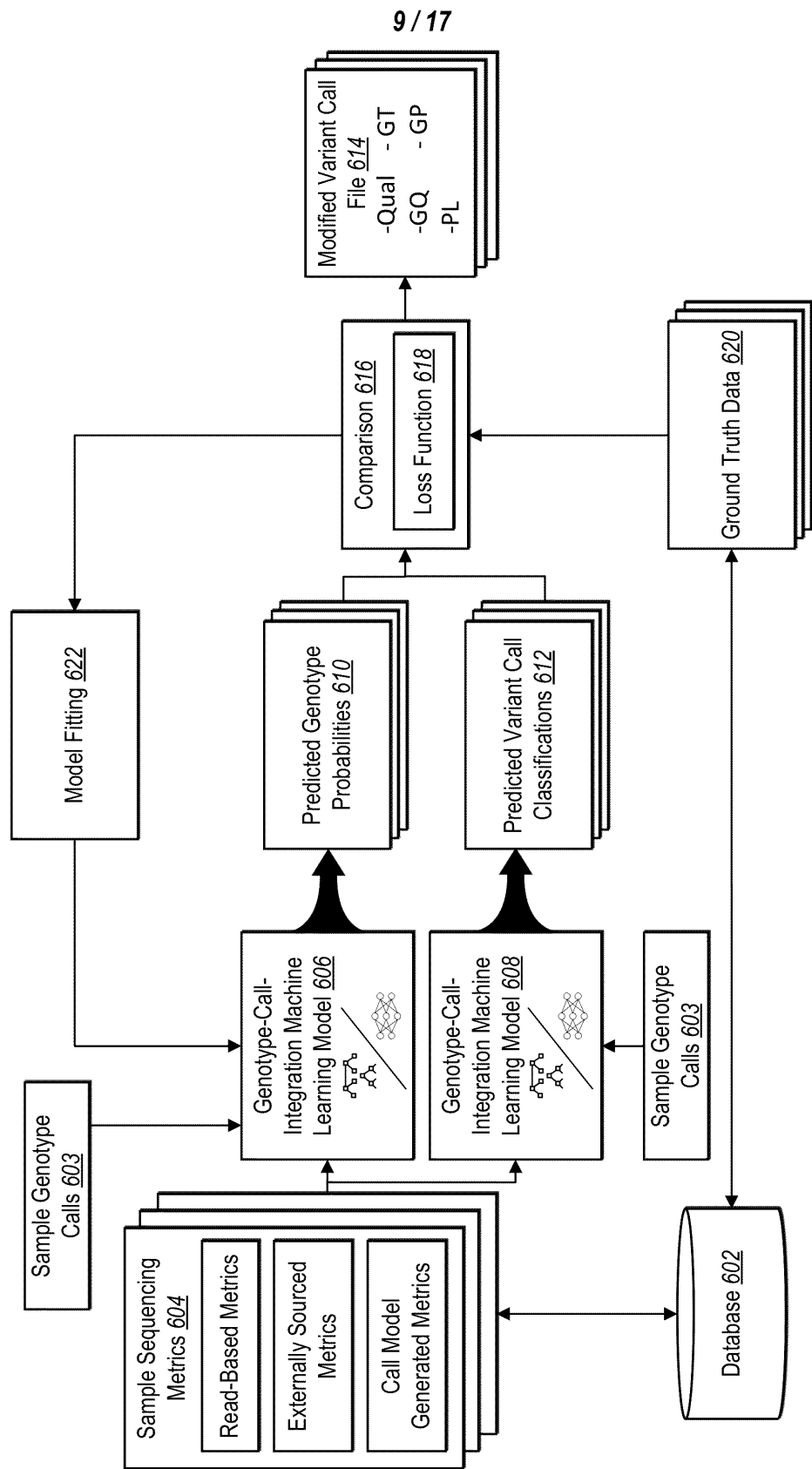


Fig. 6

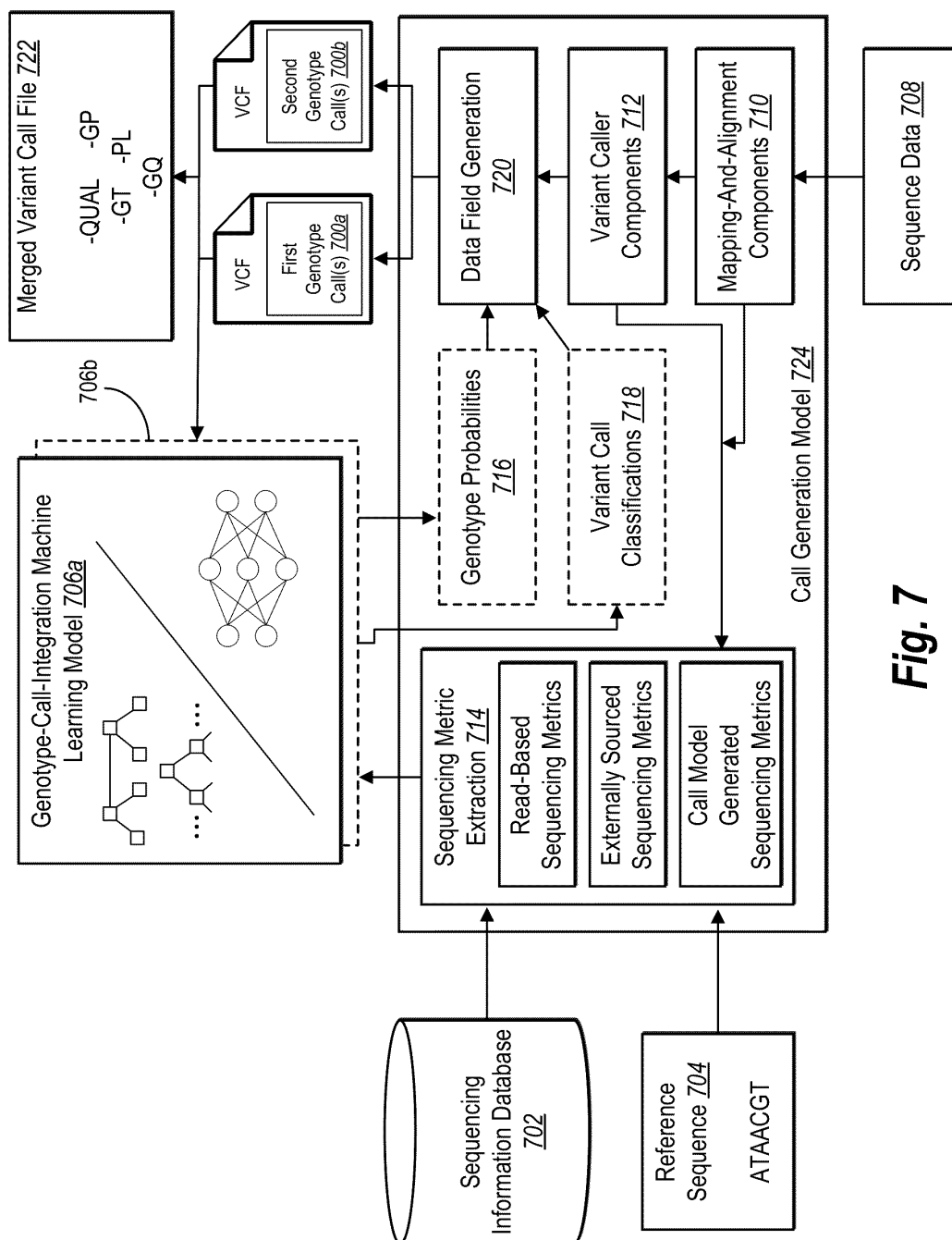
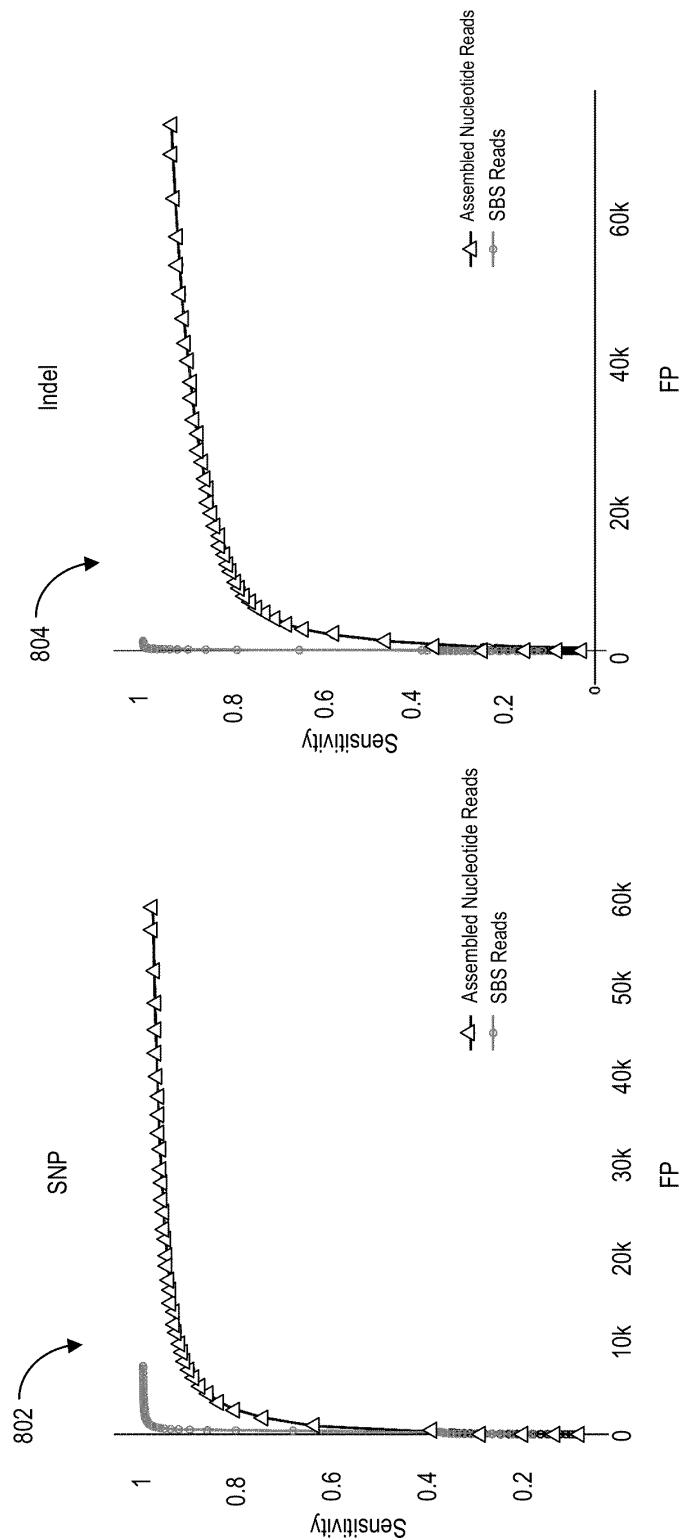


Fig. 7



806 { SNP		TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure
	Assembled Nucleotide Reads	3286378	78429	59048	10833	89	137477	0.976691	0.98235	0.979512
	SBS	3355083	9697	6385	2169	14	16081	0.997118	0.998101	0.997609
808 { Indel		TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure
	Assembled Nucleotide Reads	474523	51277	43605	13091	1841	94882	0.902478	0.915842	0.903111
	SBS	524081	1737	1033	493	41	2770	0.996696	0.998034	0.997365

Fig. 8

902	HG002				
	Technology	SNP		INDEL	
		FP+FN	F1	FP+FN	F1
		10365	0.998459	2279	0.997831
	Genotype-Call-Integration Machine-Learning Model				
		7192	0.998931	1767	0.998319

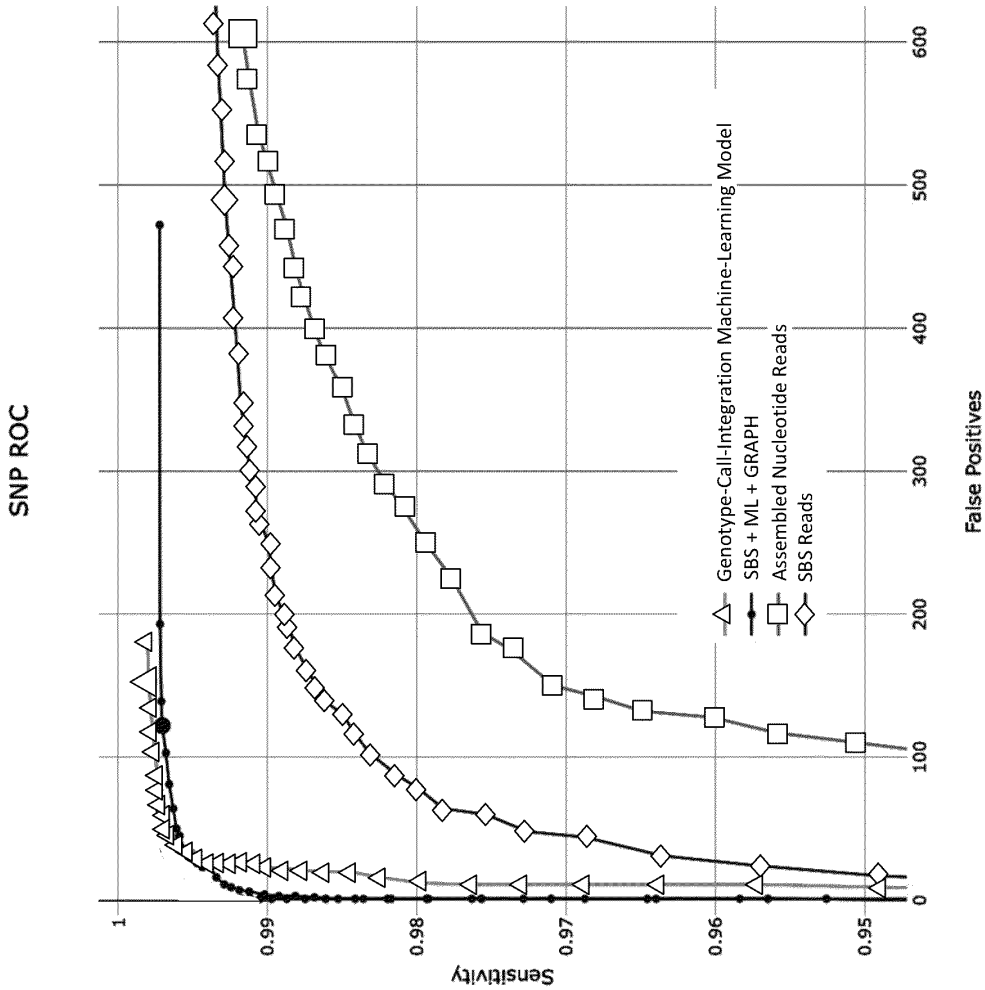
904	HG003				
	Technology	SNP		INDEL	
		FP+FN	F1	FP+FN	F1
		10202	0.998466	2167	0.997852
	Genotype-Call-Integration Machine-Learning Model				
		8449	0.99873	1972	0.998045

Fig. 9A

906		SNP									
		TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure	
	HG002	3360010	4775	1515	592	19	6290	0.998581	0.999549	0.999065	
	HG003	3321972	5276	2342	612	11	7617	0.998414	0.999296	0.998855	
908		Indel									
		TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure	
	HG002	524844	973	693	425	56	1666	0.99815	0.998681	0.998415	
	HG003	503677	1070	822	562	67	1891	0.997881	0.998372	0.998126	

Fig. 9B

Fig. 10A



1002

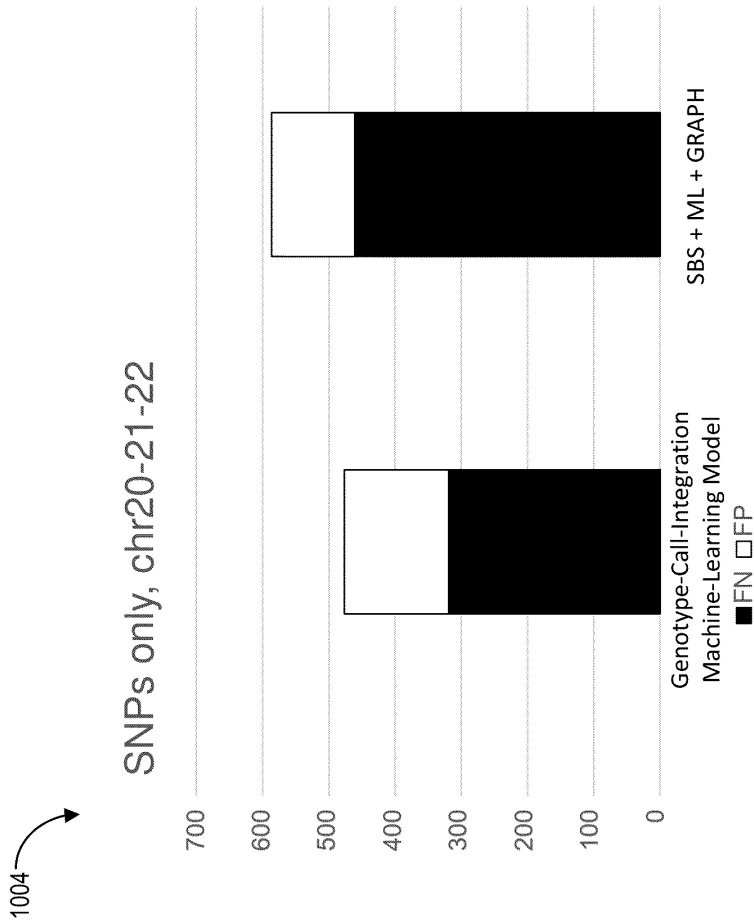
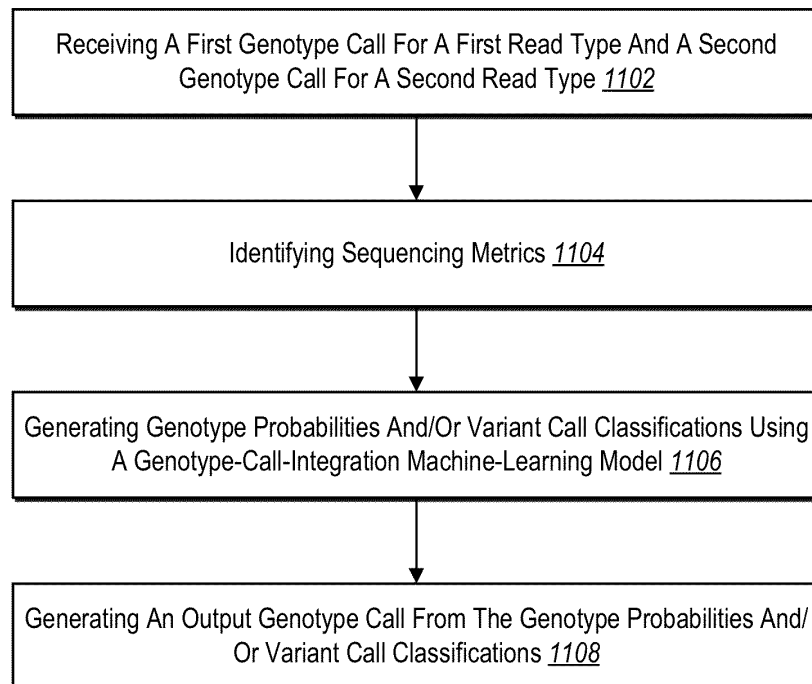


Fig. 10B

16 / 17

1100

**Fig. 11**

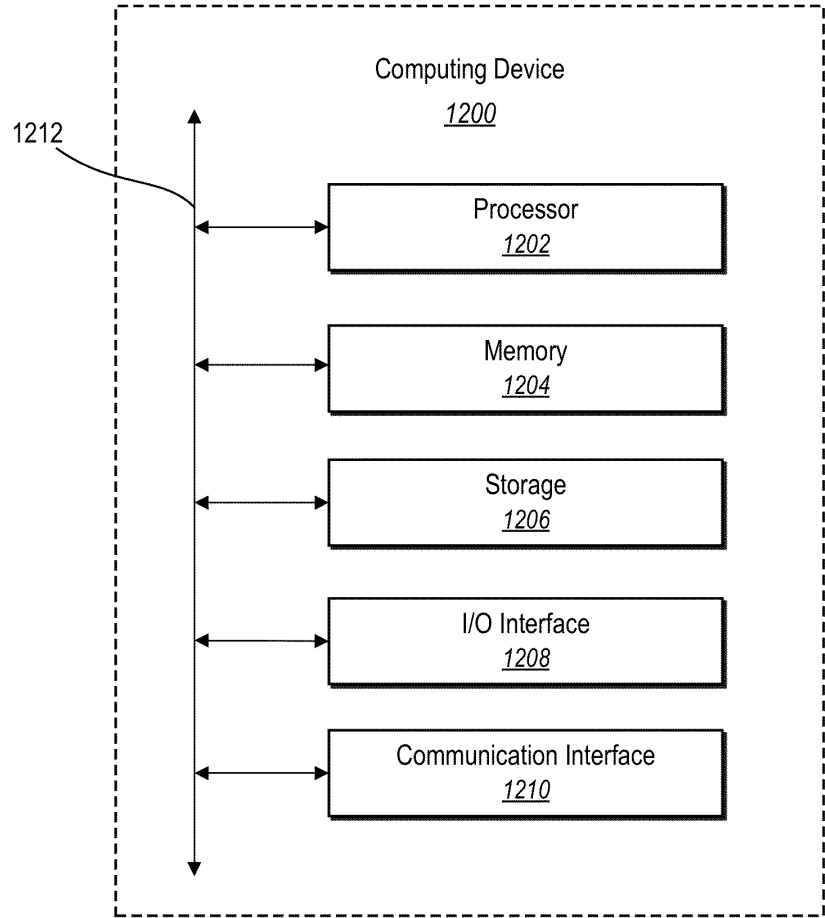


Fig. 12