

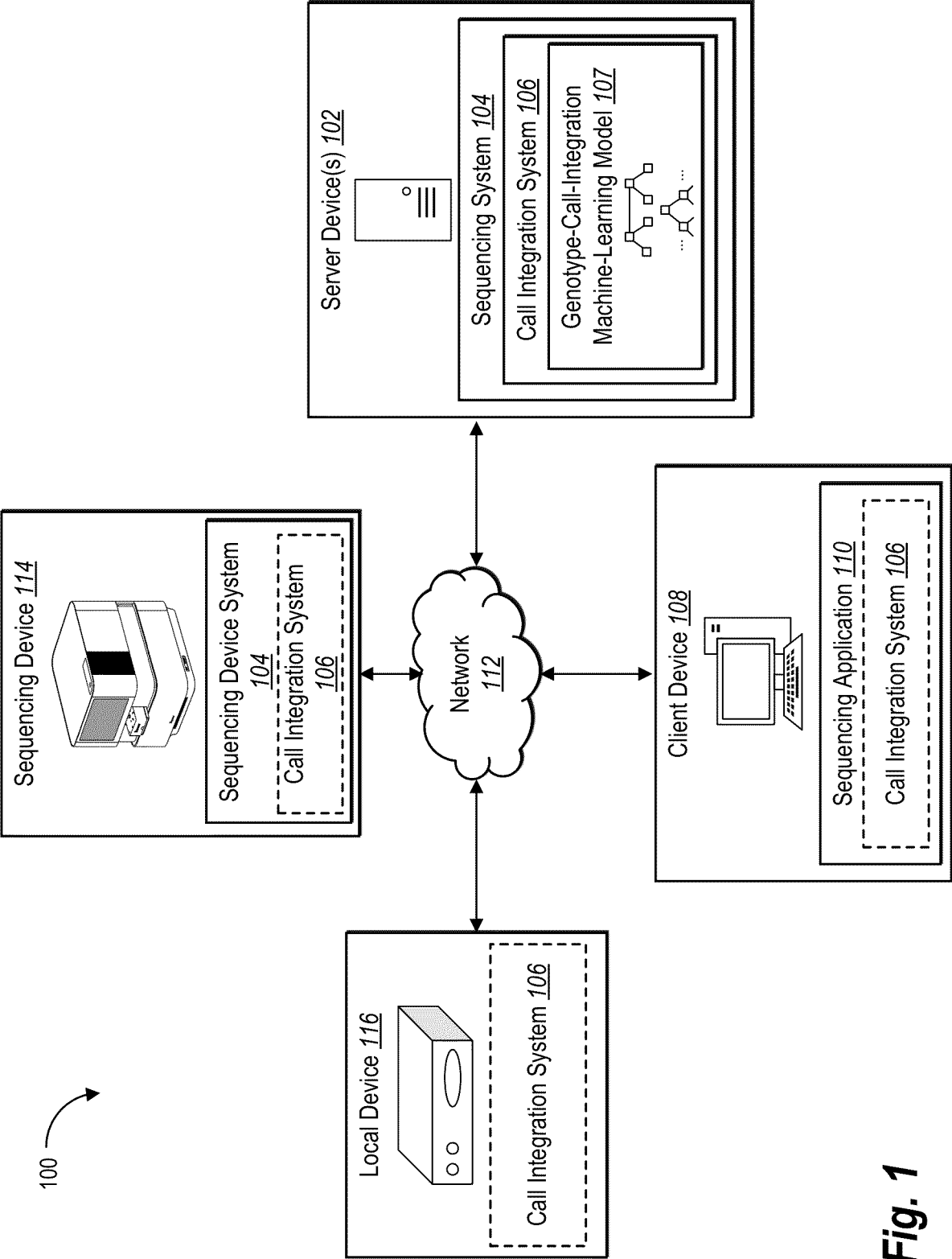


Fig. 1

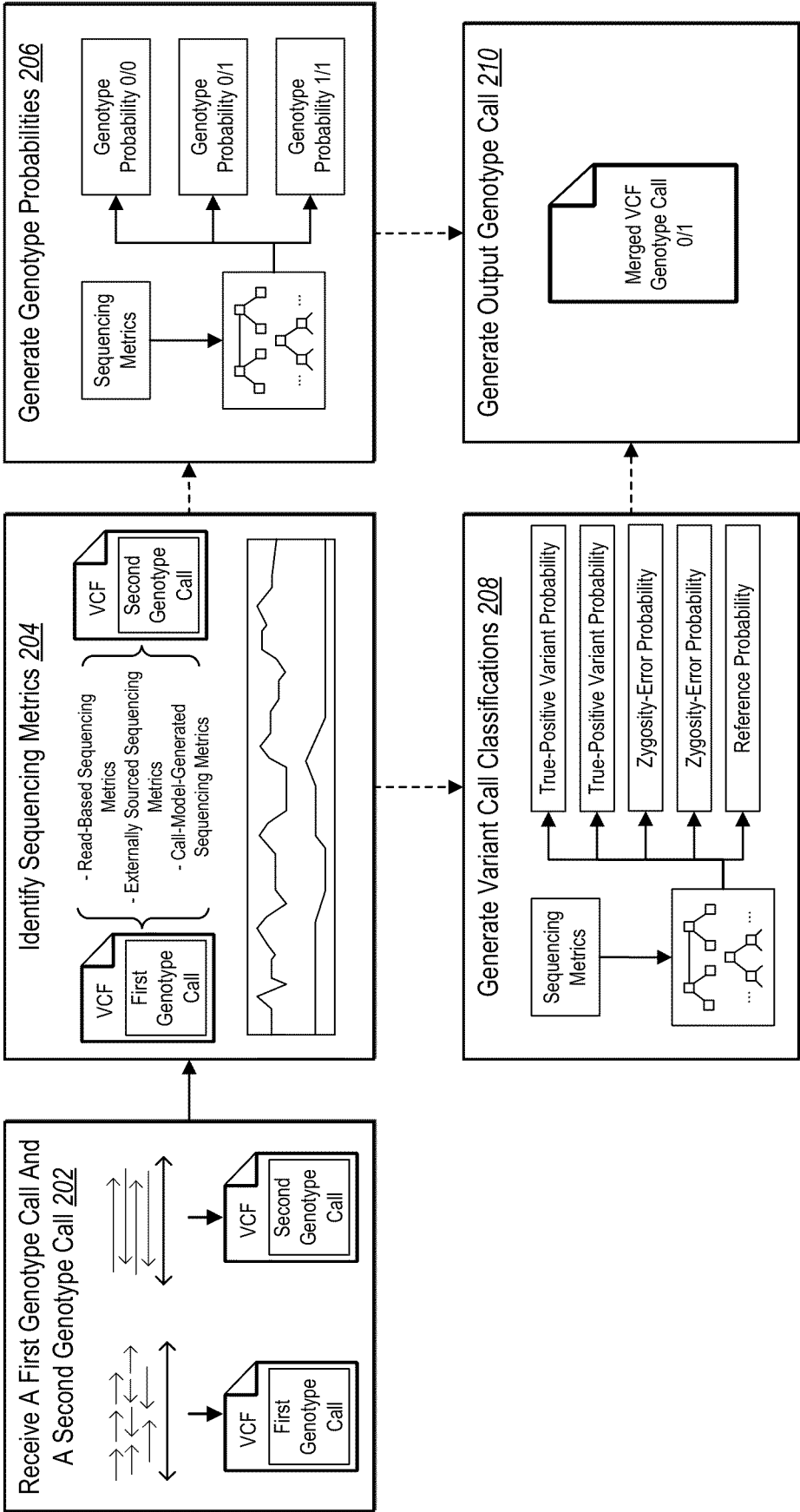
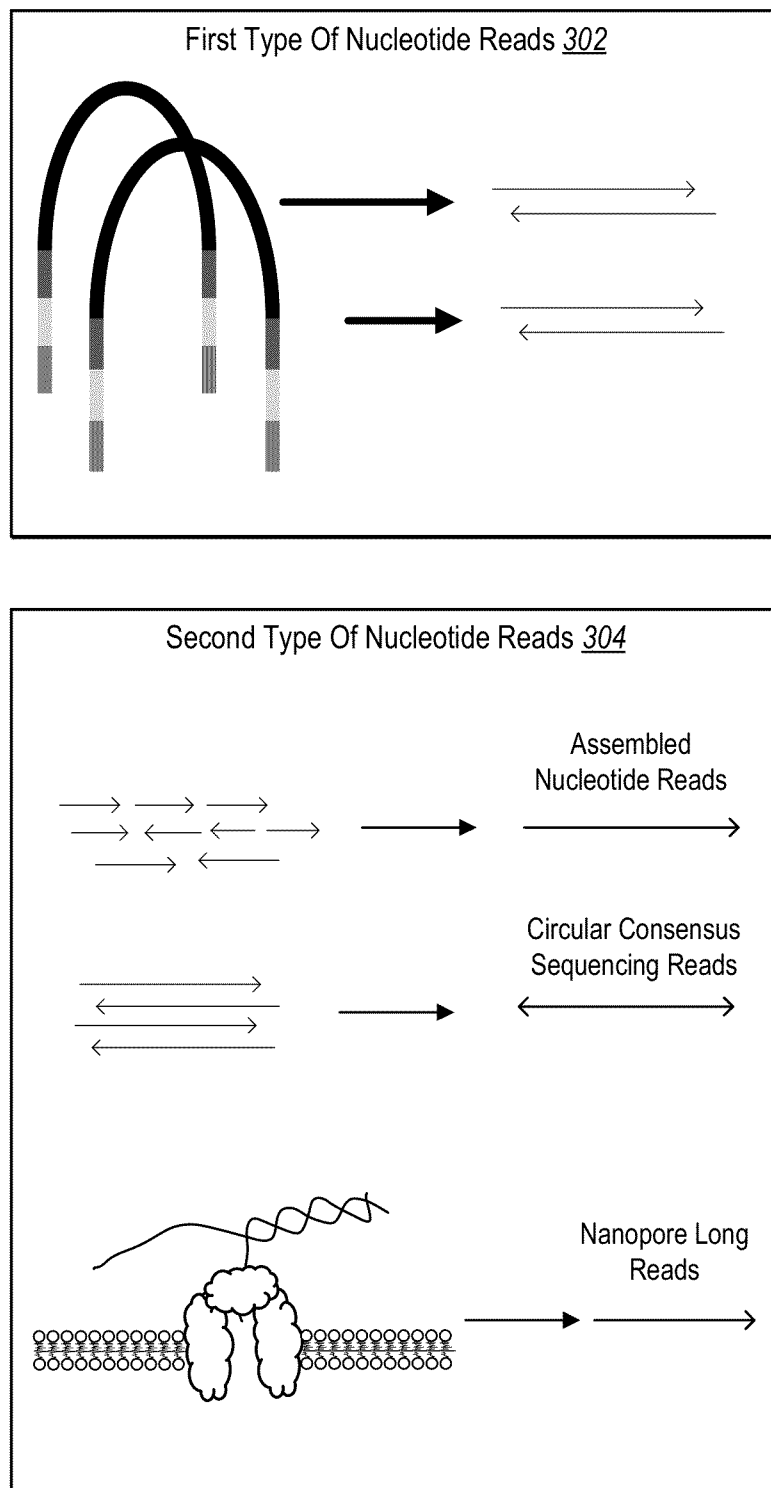


Fig. 2

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**Fig. 3**

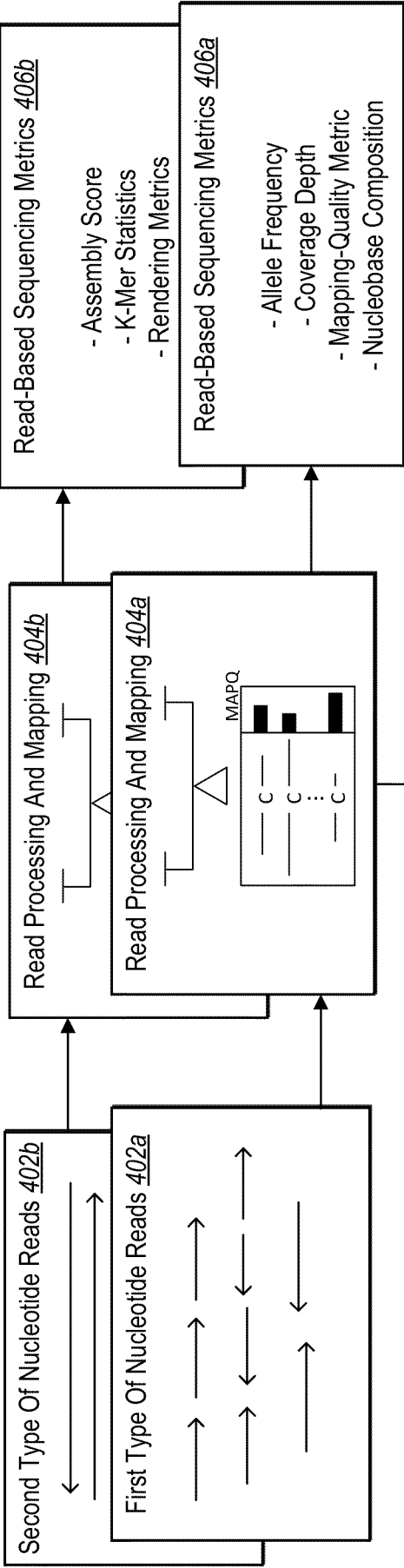


Fig. 4A

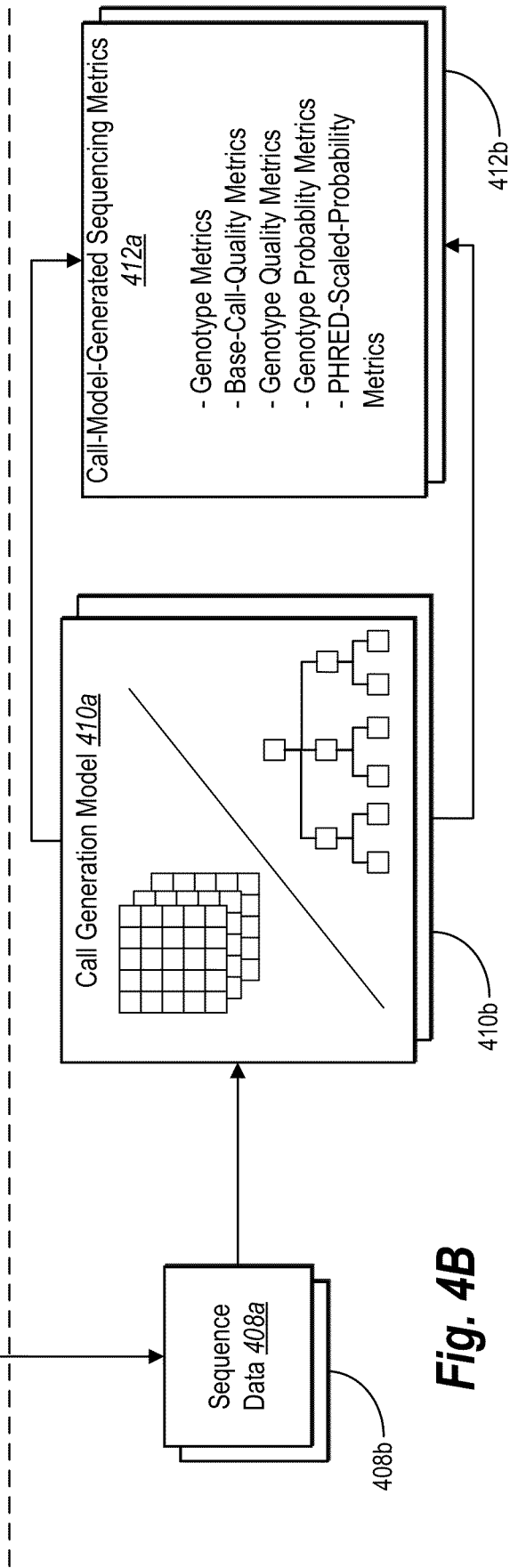


Fig. 4B

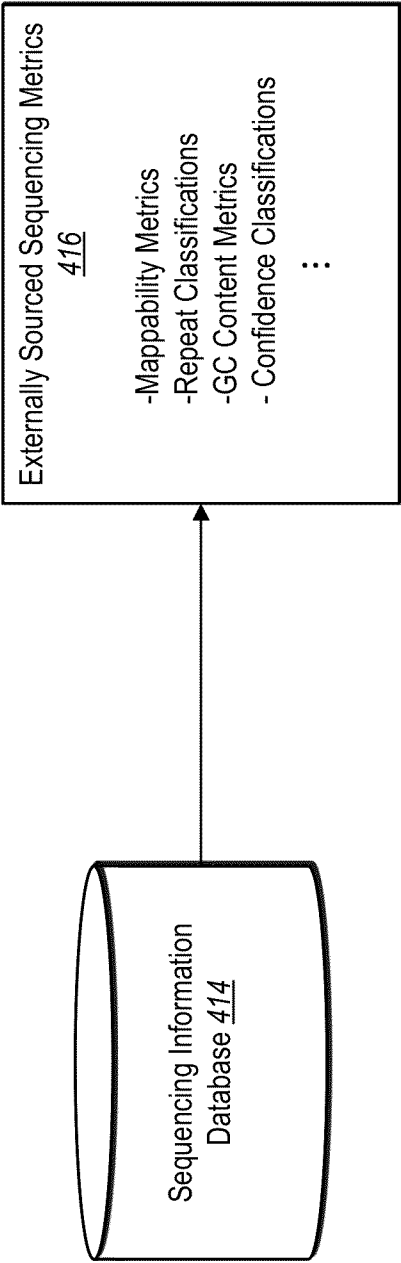


Fig. 4C

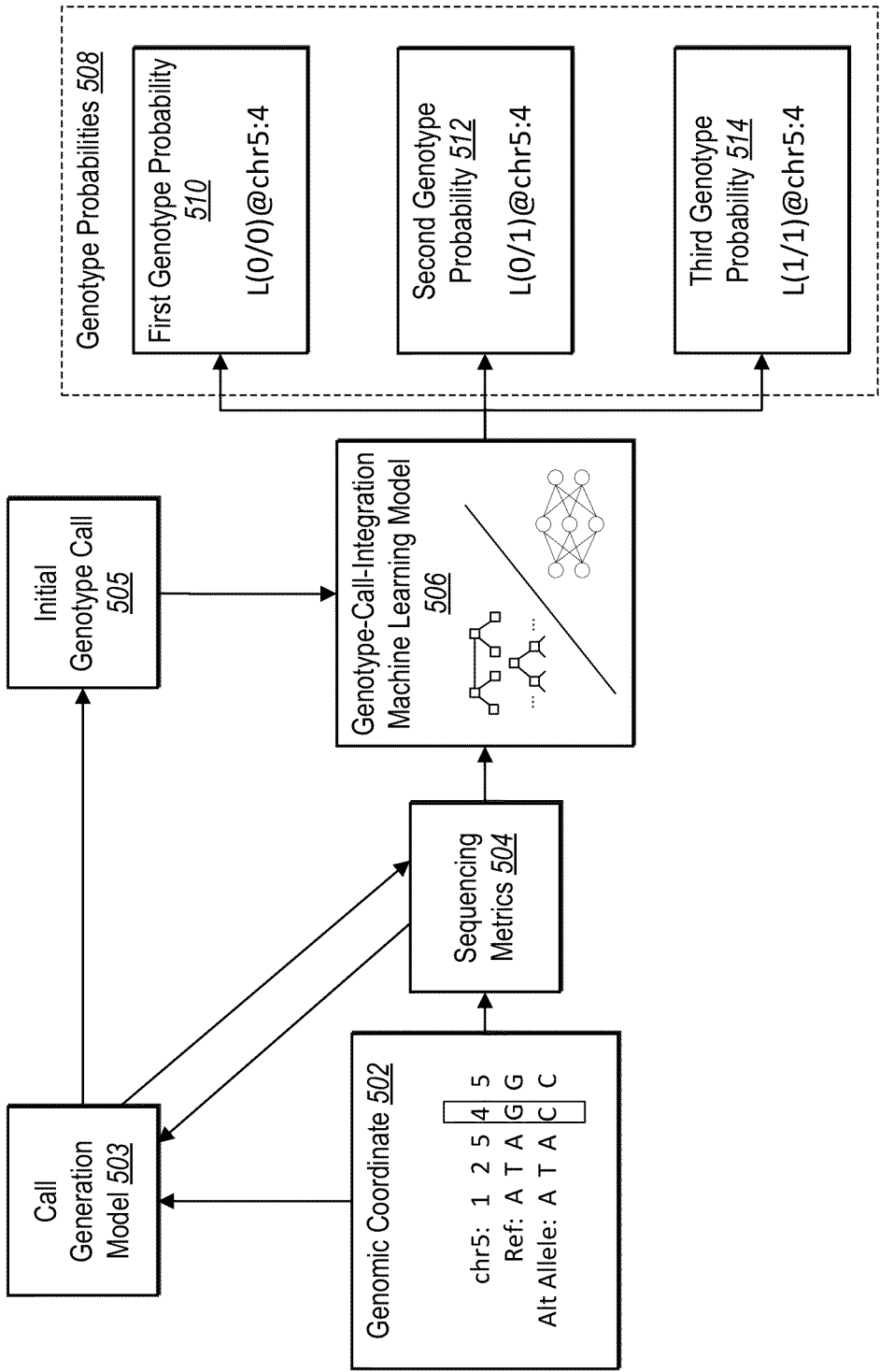


Fig. 5A

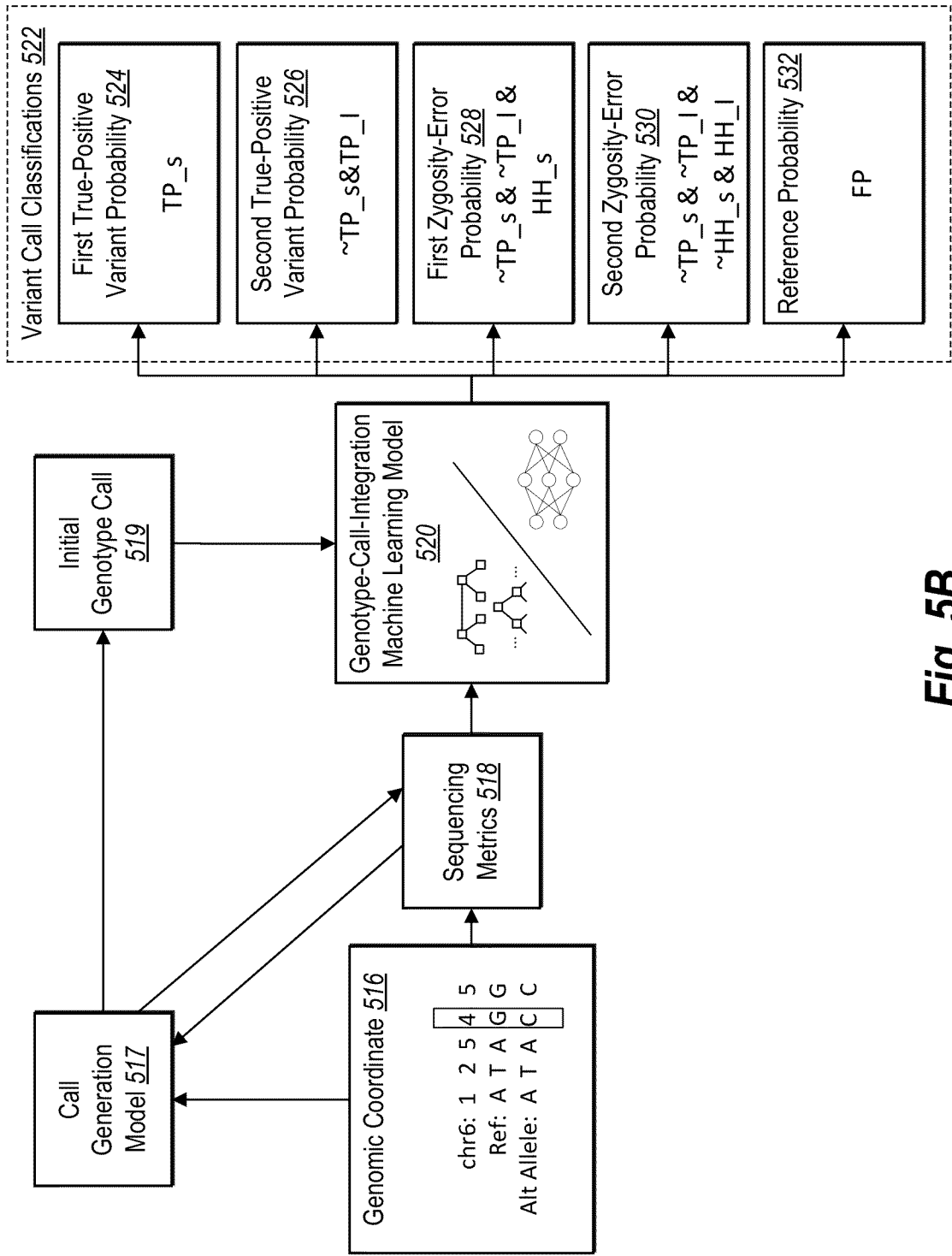


Fig. 5B

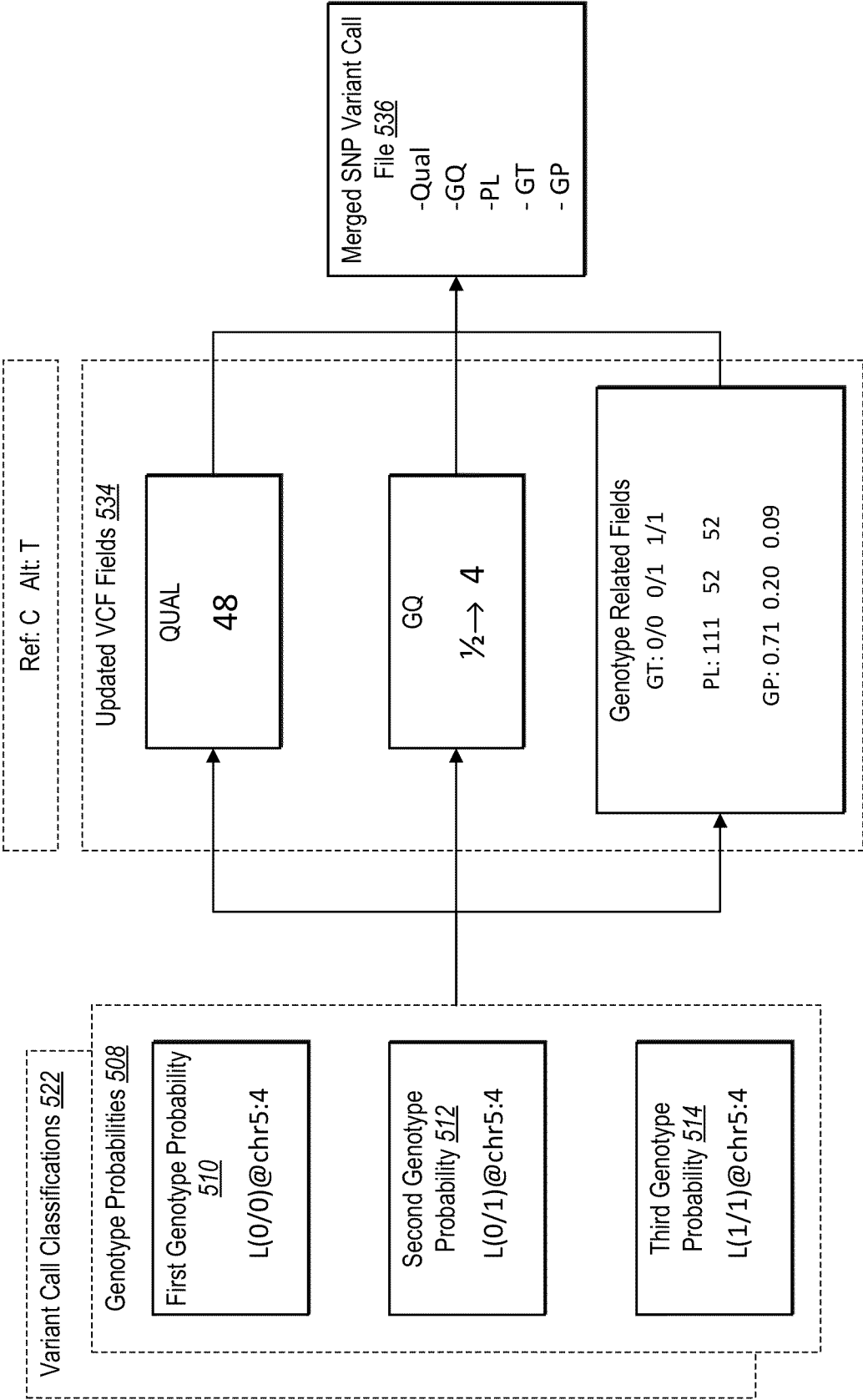


Fig. 5C

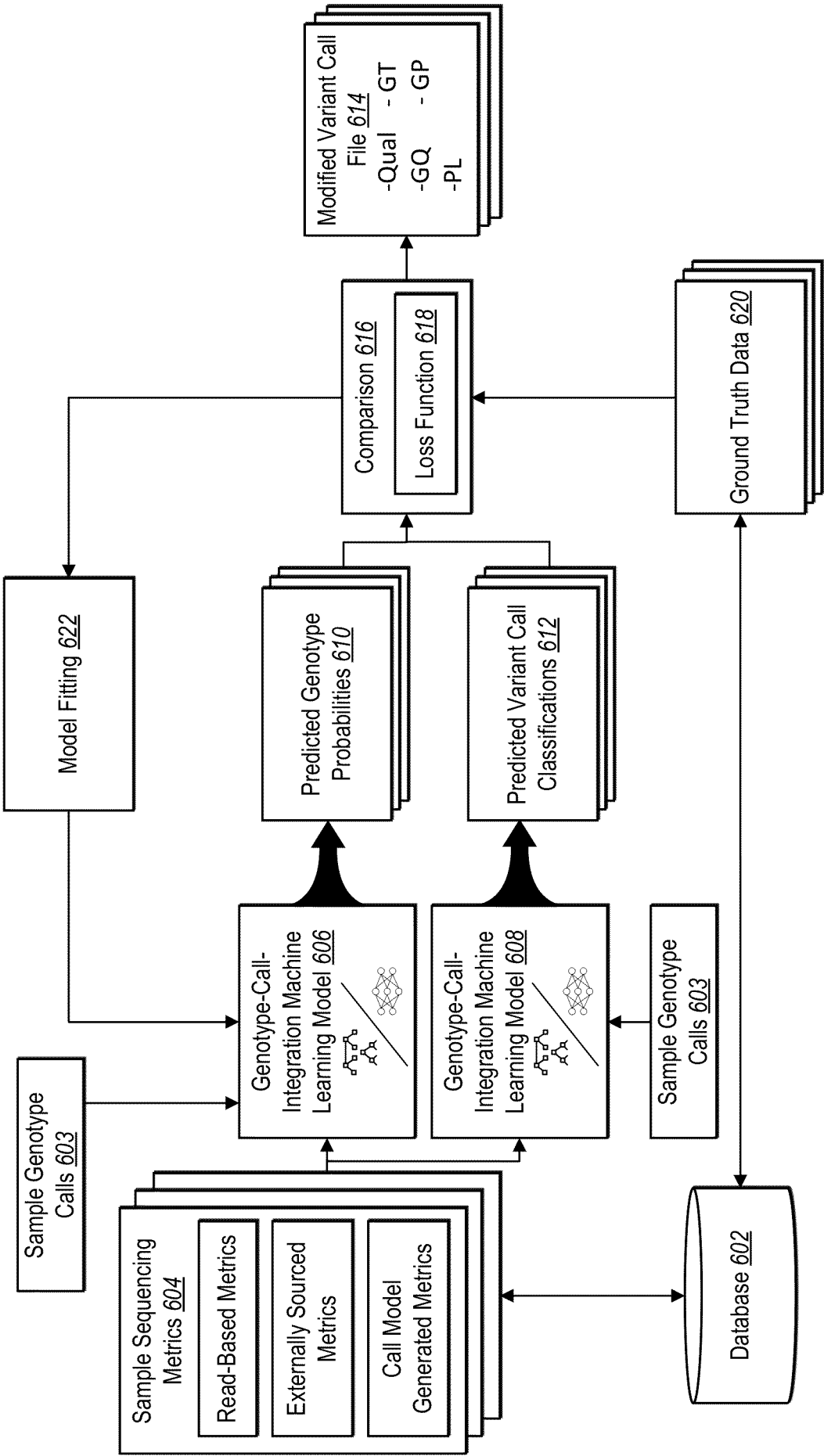


Fig. 6

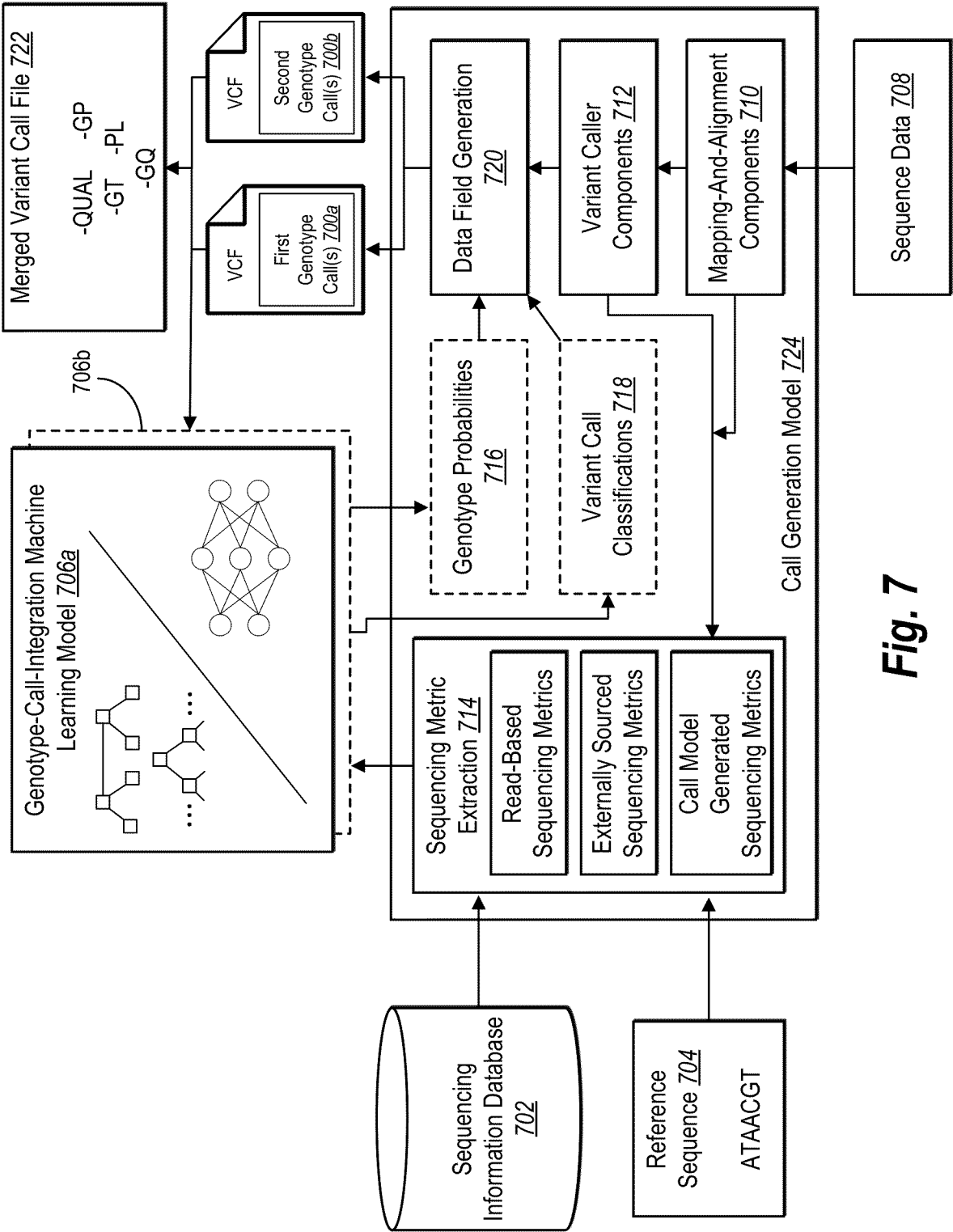
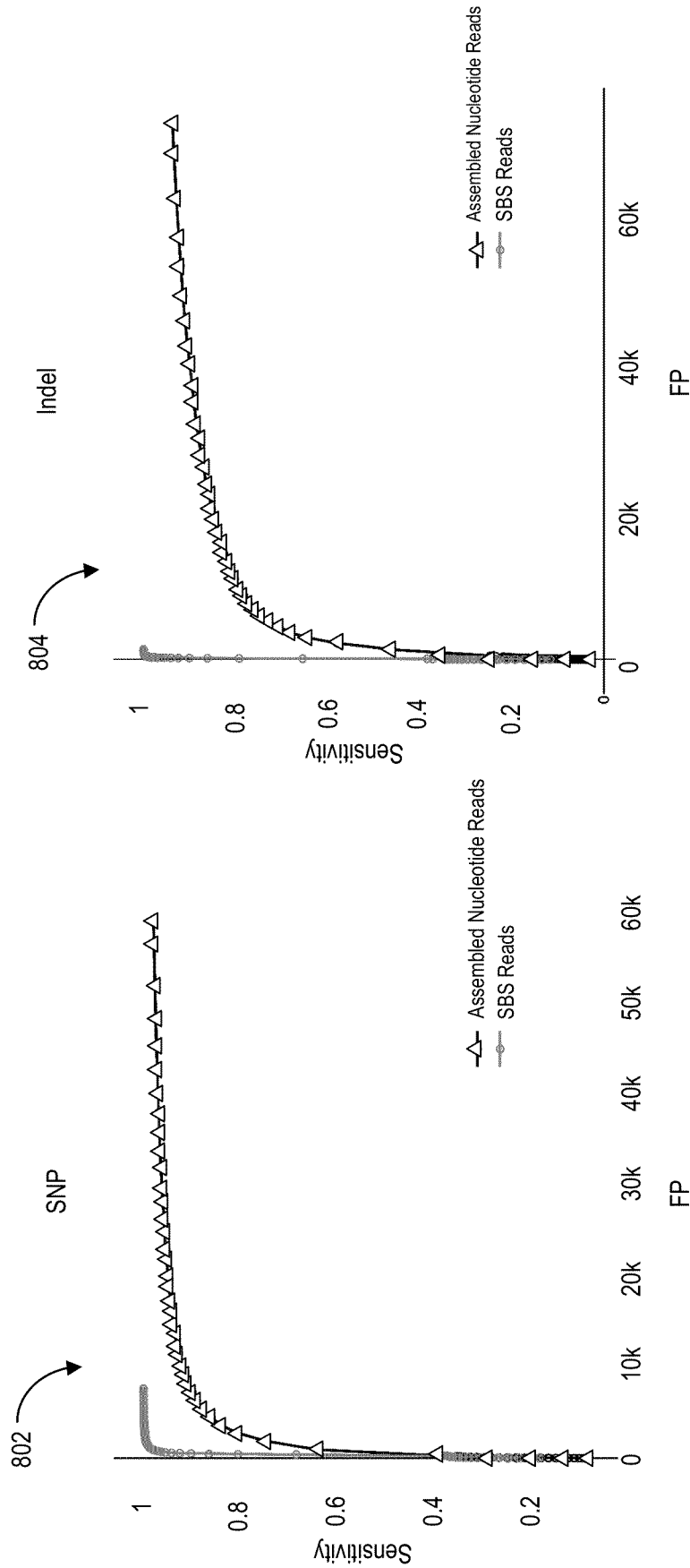


Fig. 7



806	SNP									
	Assembled Nucleotide Reads	TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure
	SBS	3286378	78429	59048	10833	89	137477	0.976691	0.98235	0.979512
		3355083	9697	6385	2169	14	16081	0.997118	0.998101	0.997609
808	Indel									
	Assembled Nucleotide Reads	TP	FN	FP	Hethom	Vardiff	FP+FN	Recall	Precision	F-Measure
	SBS	474523	51277	43605	13091	1841	94882	0.902478	0.915842	0.909111
		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

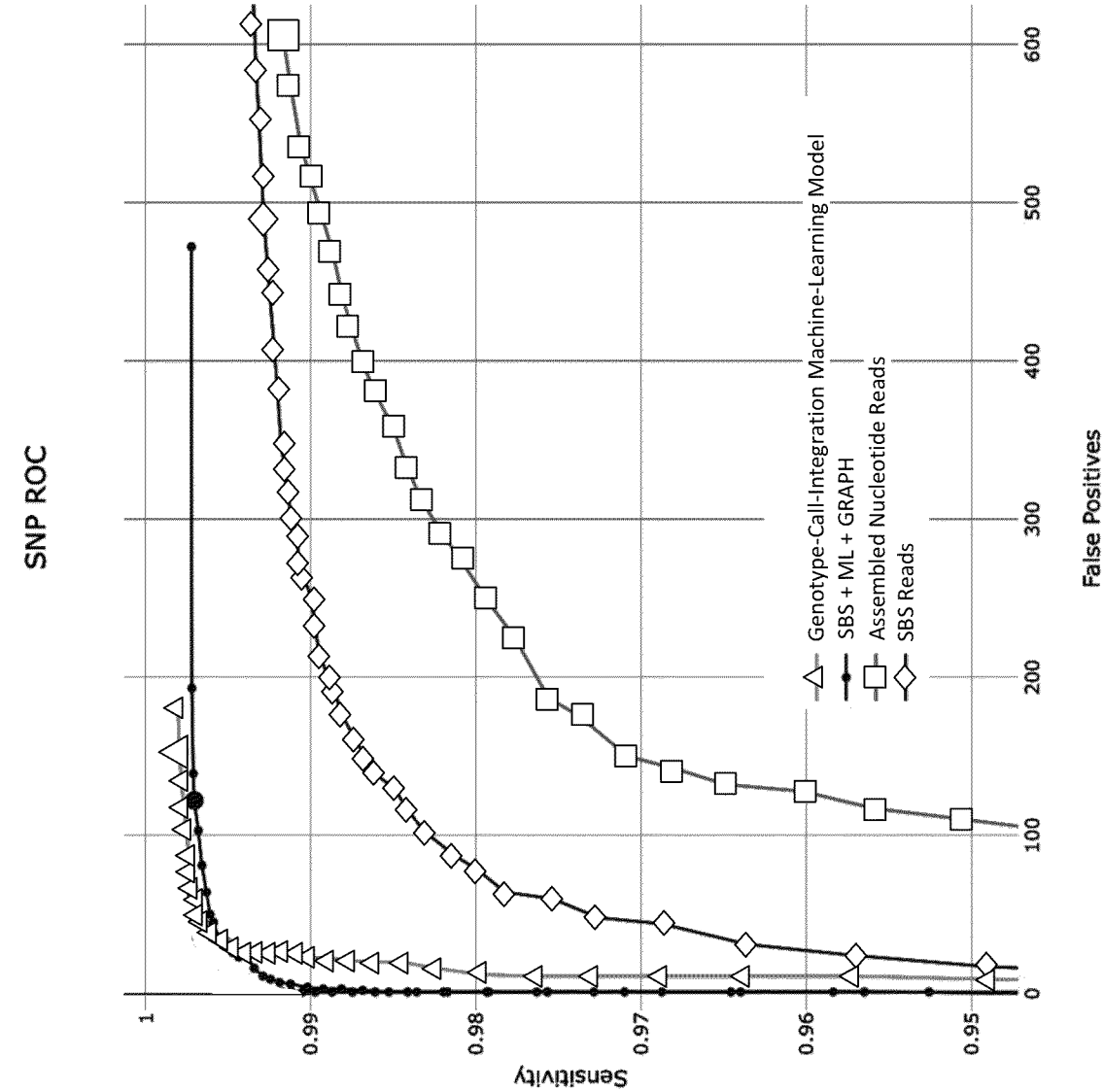
908

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



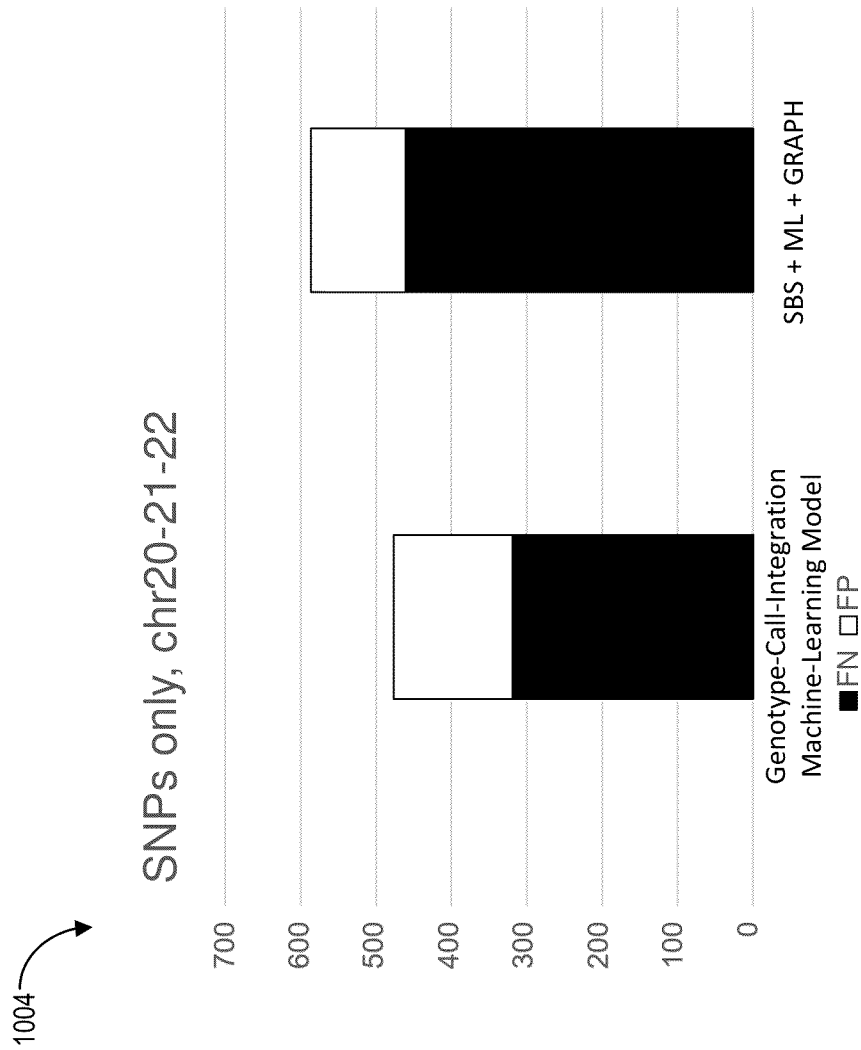
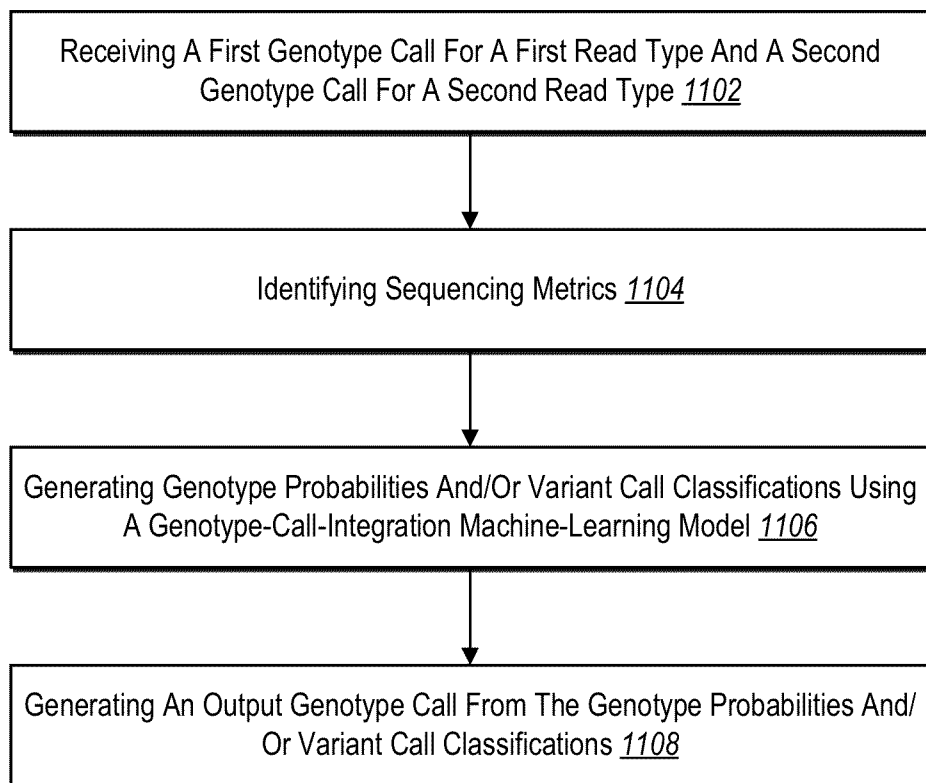


Fig. 10B

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1100 **Fig. 11**

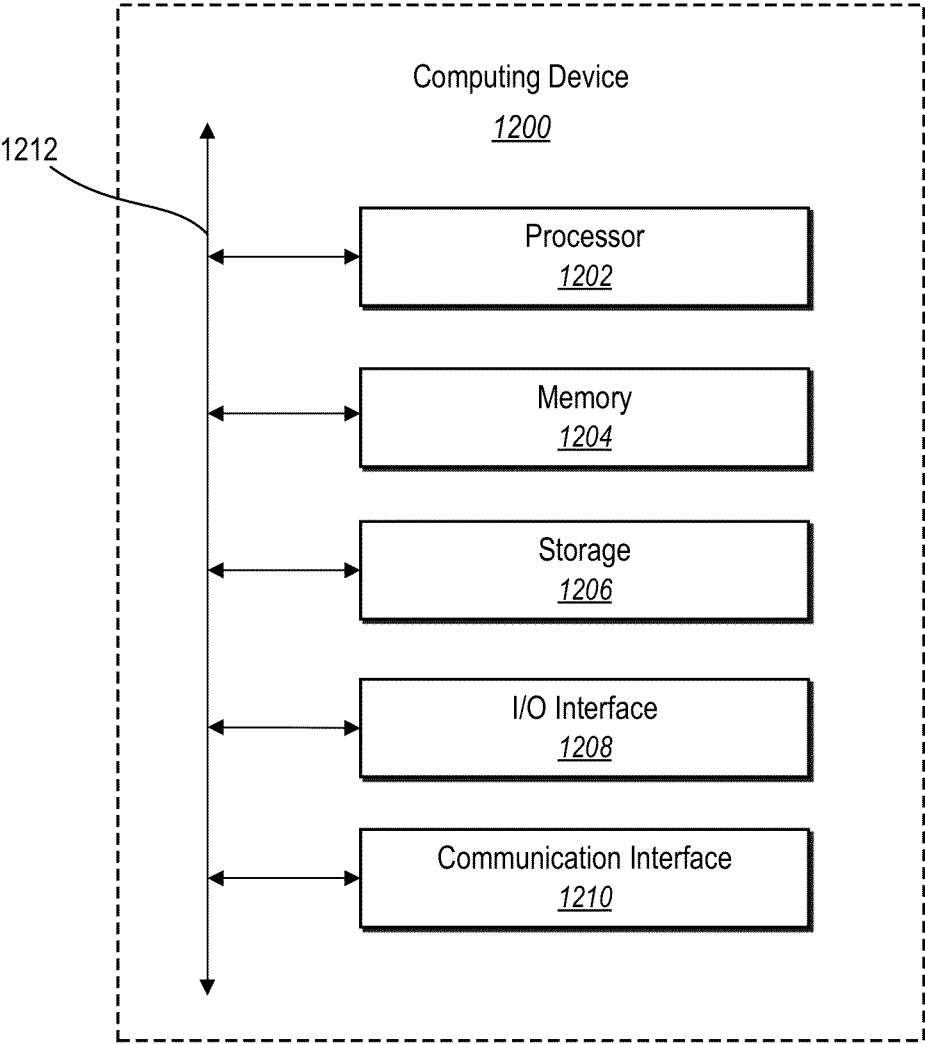


Fig. 12