

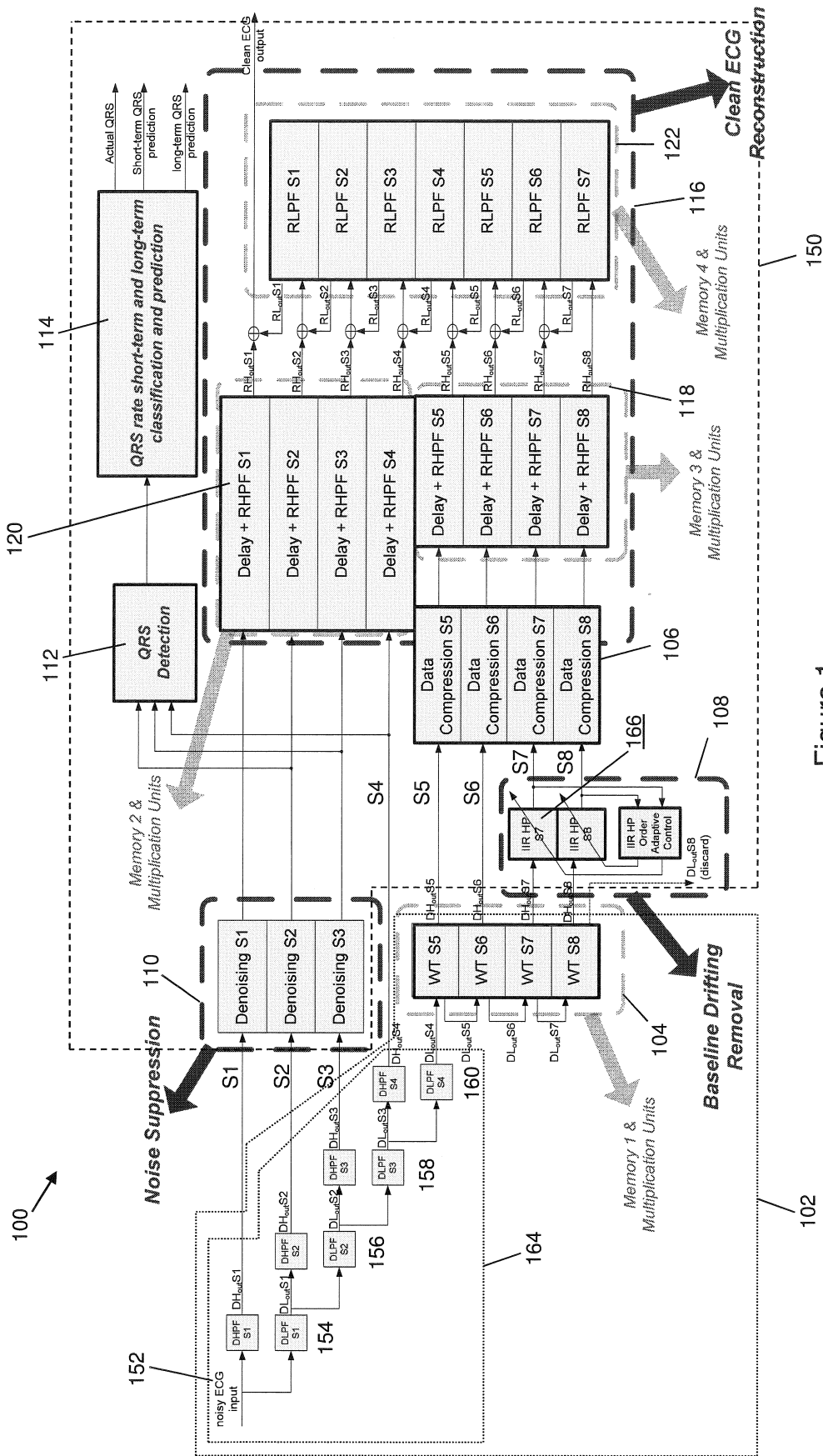


Figure 1

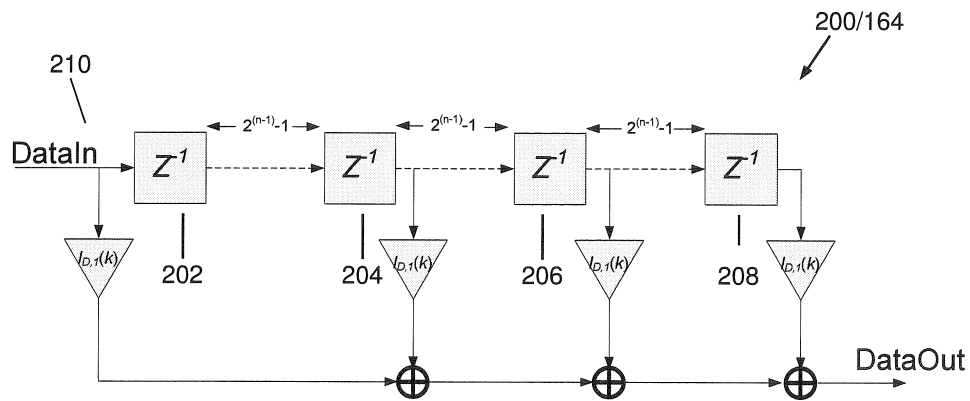


Figure 2

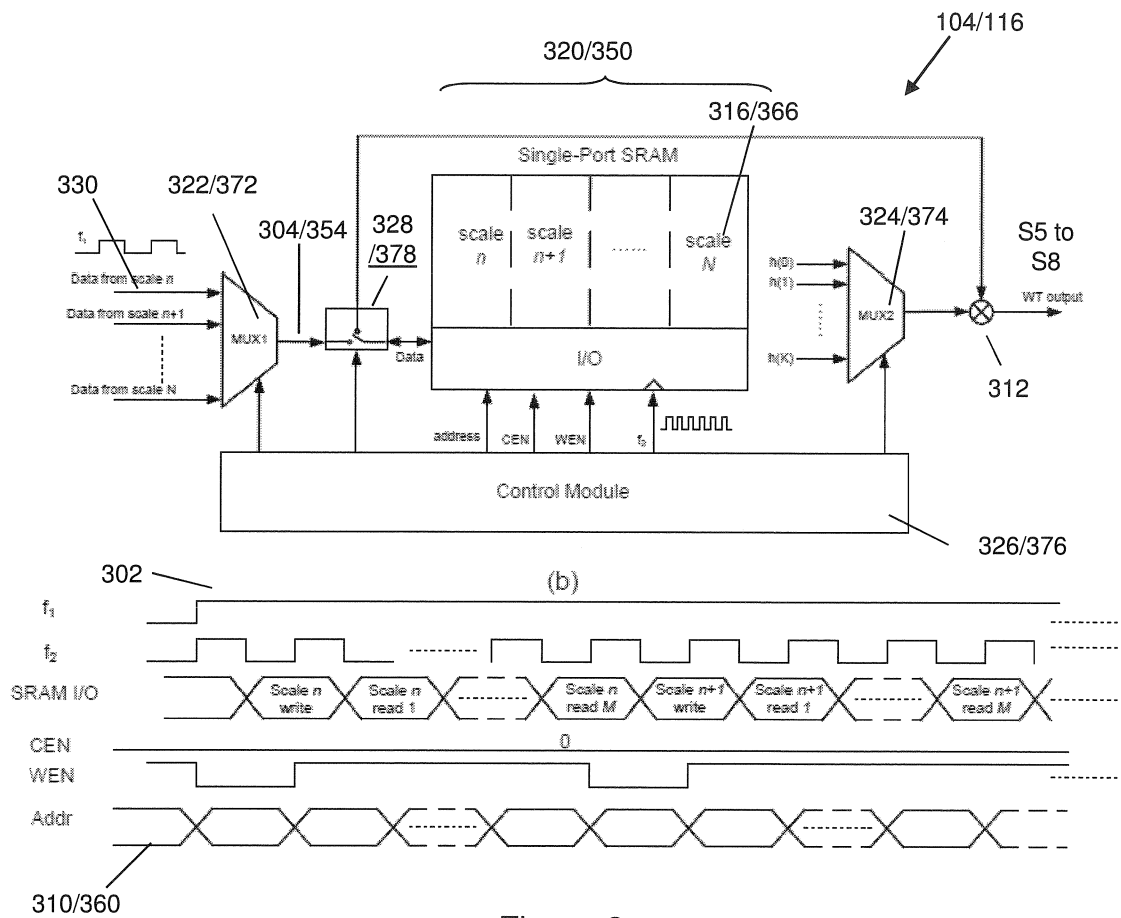


Figure 3

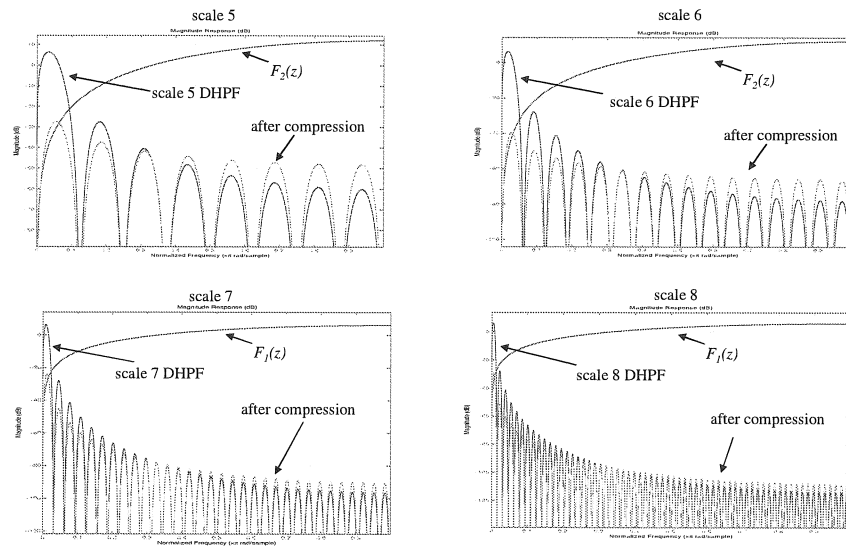


Figure 4

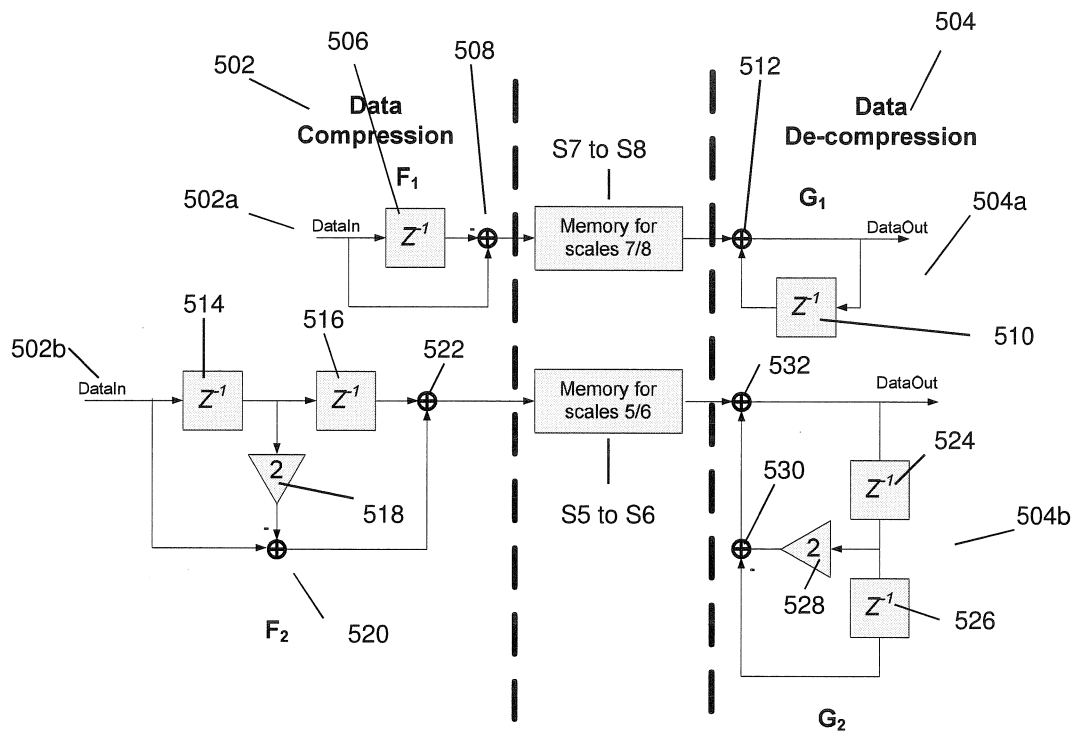


Figure 5

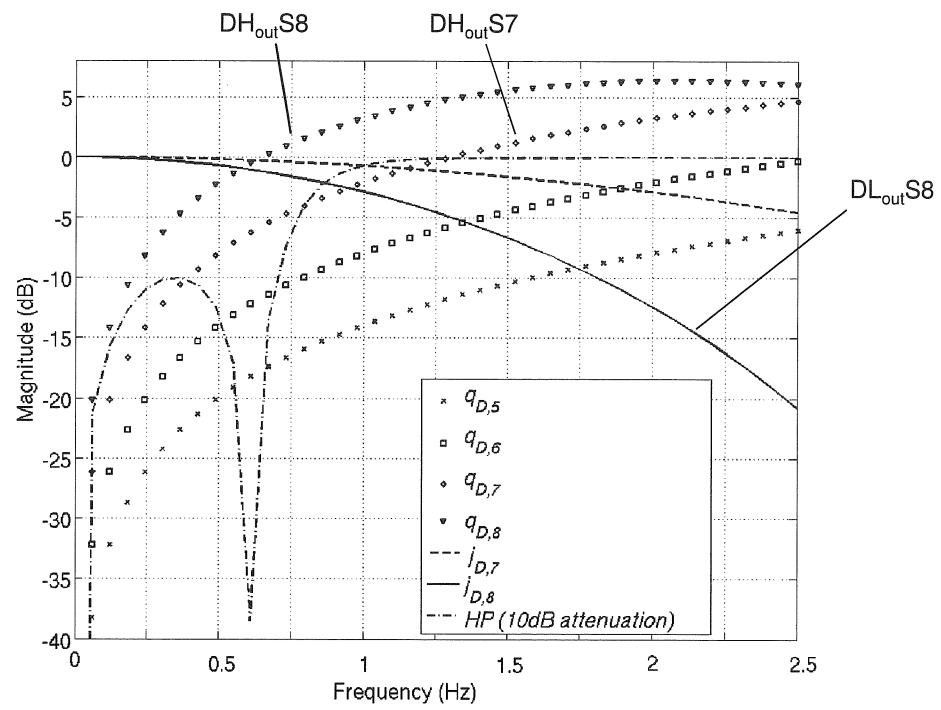


Figure 6

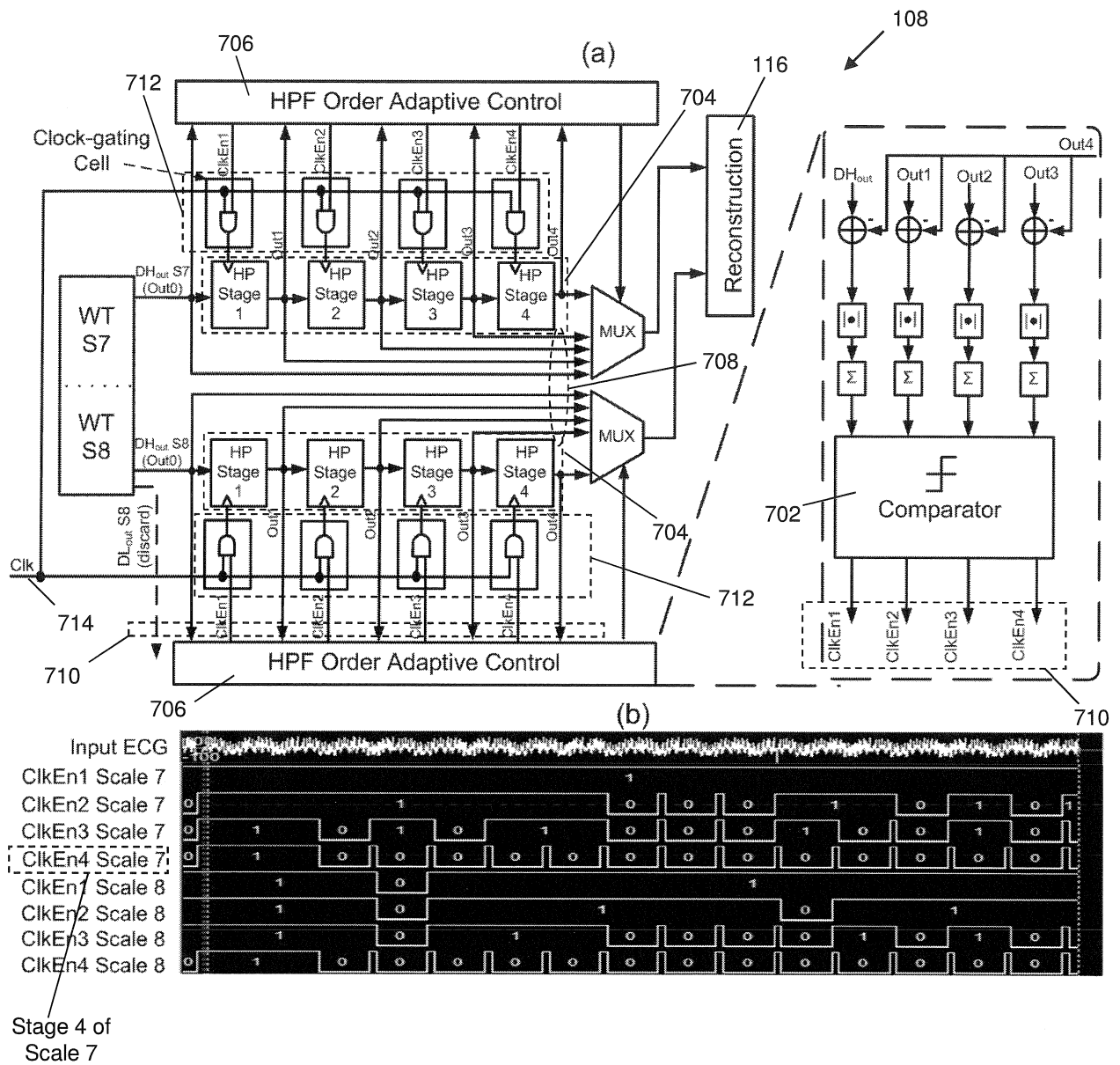
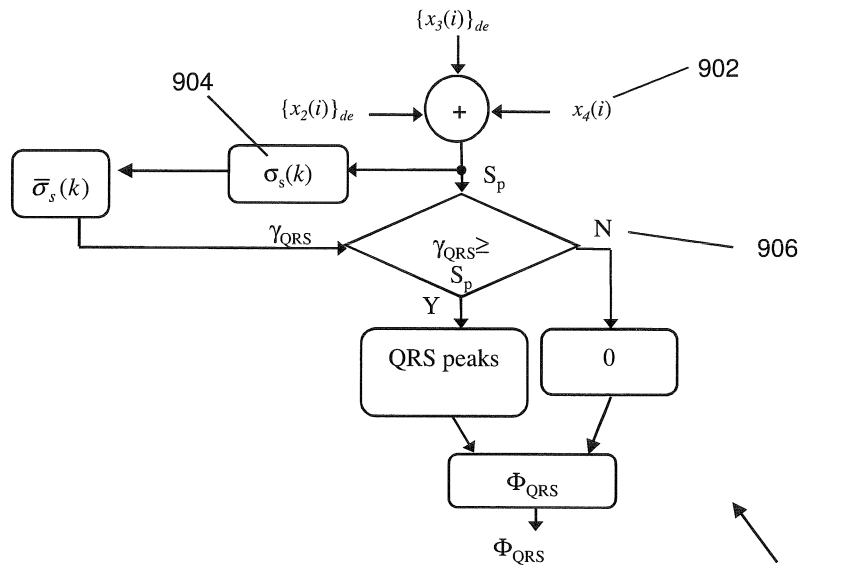
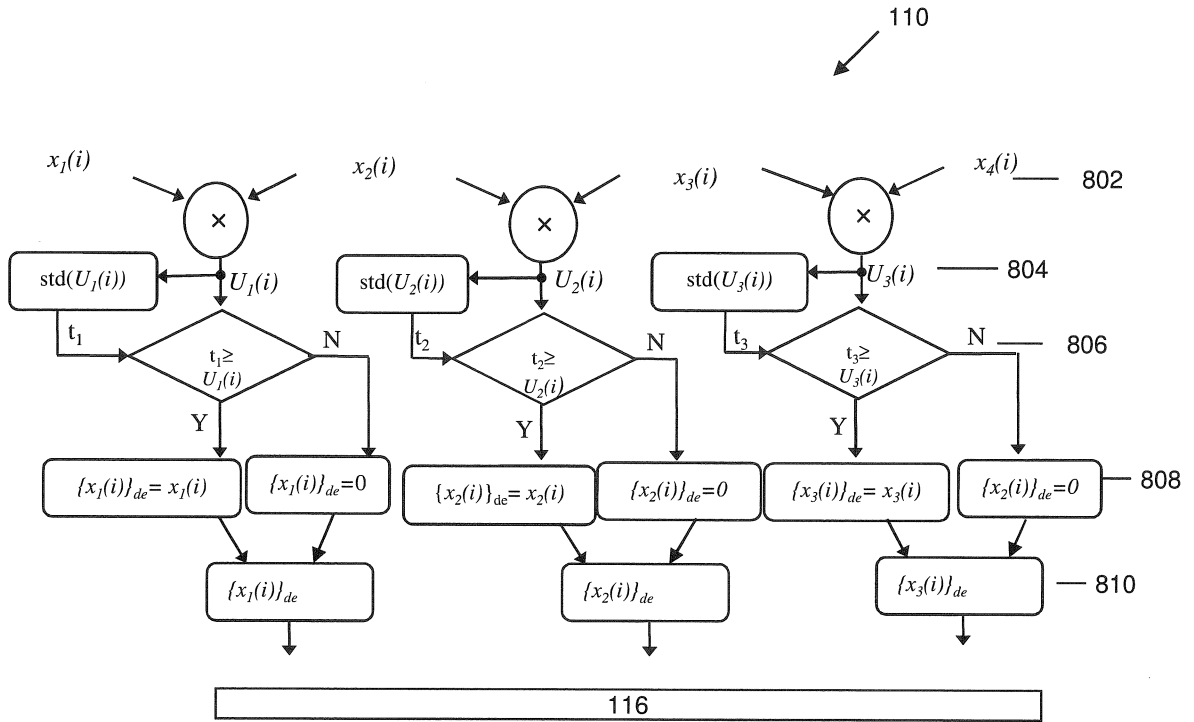


Figure 7



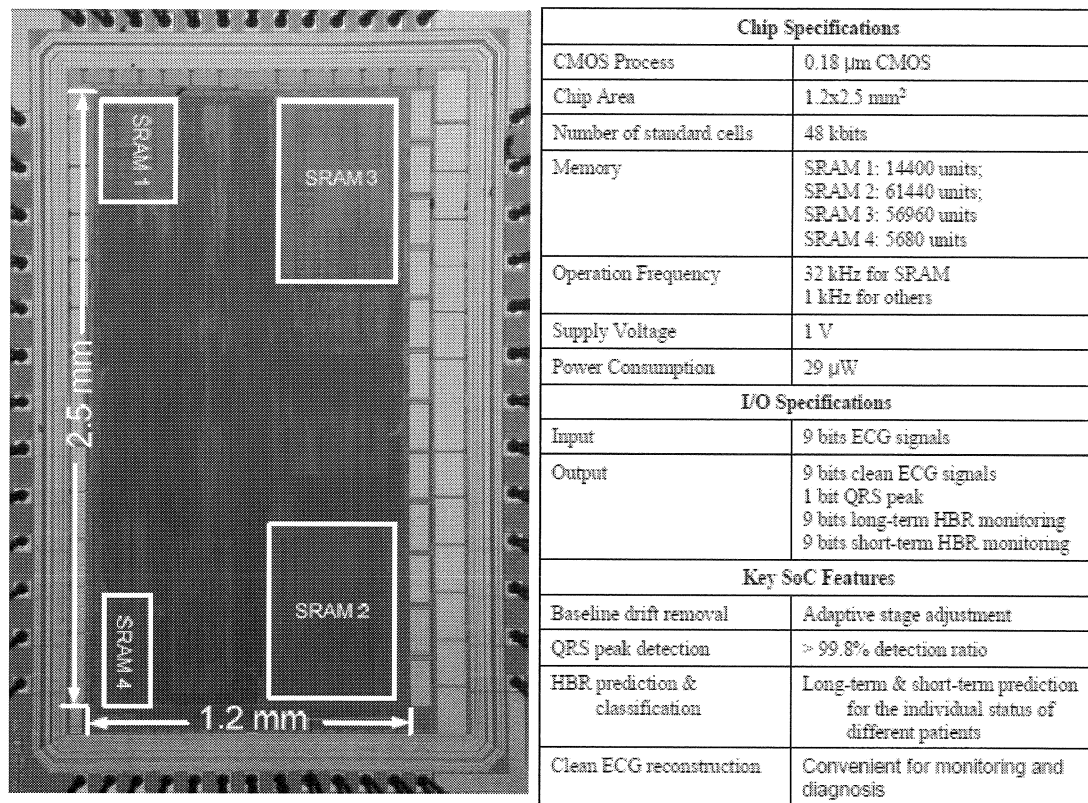


Figure 10B

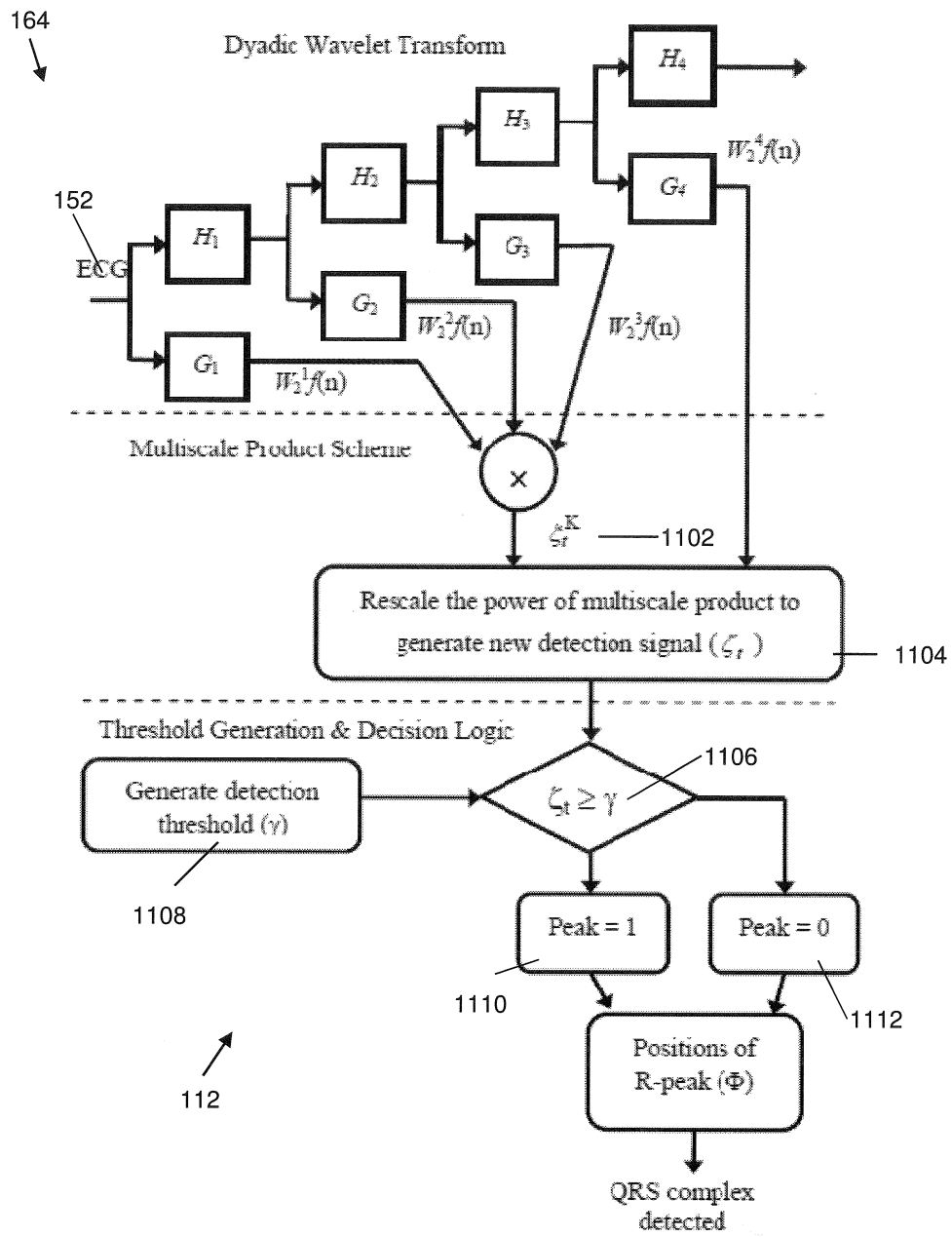


Figure 11

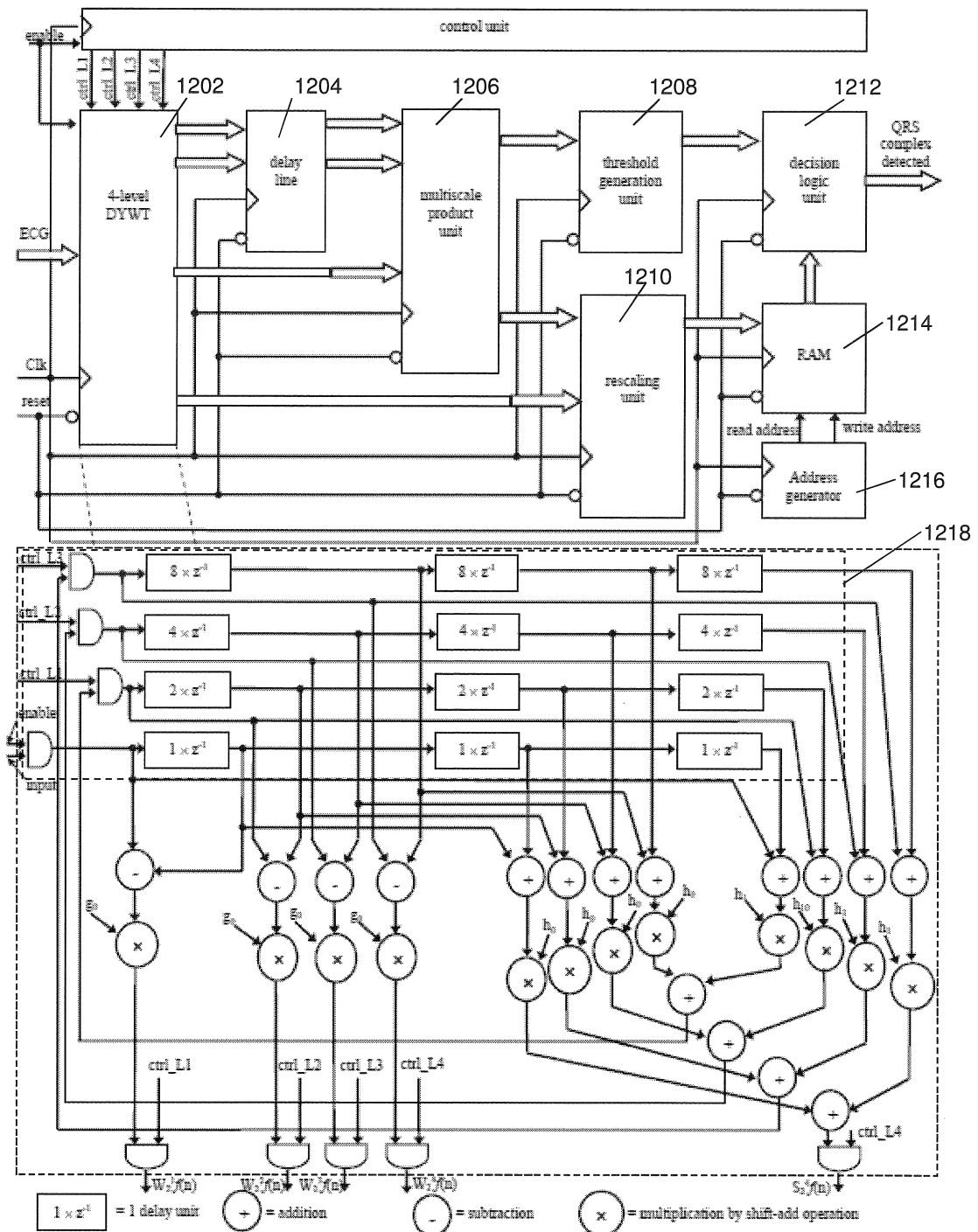


Figure 12

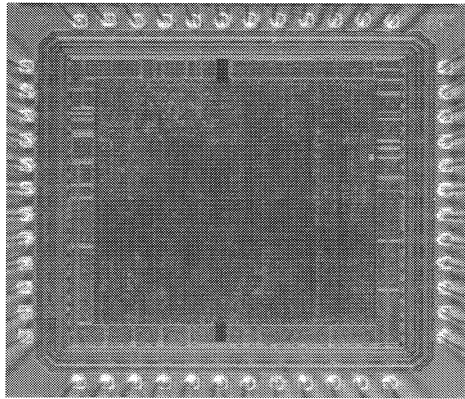


Figure 13

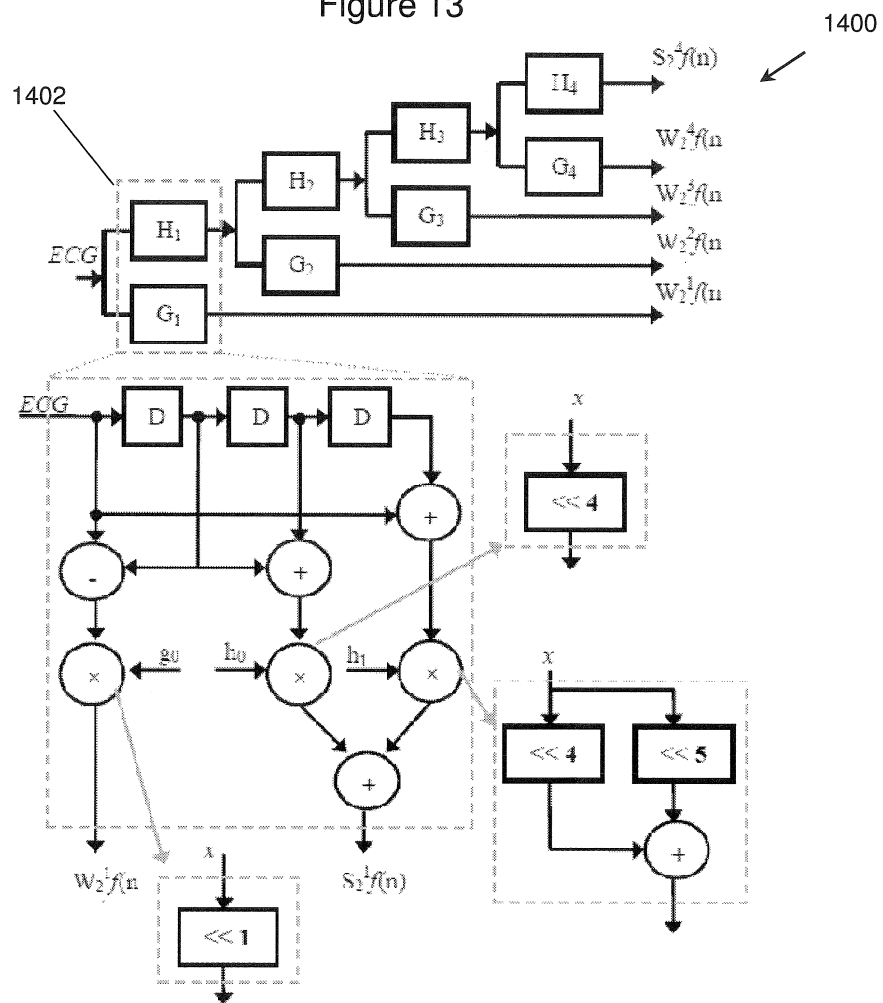


Figure 14

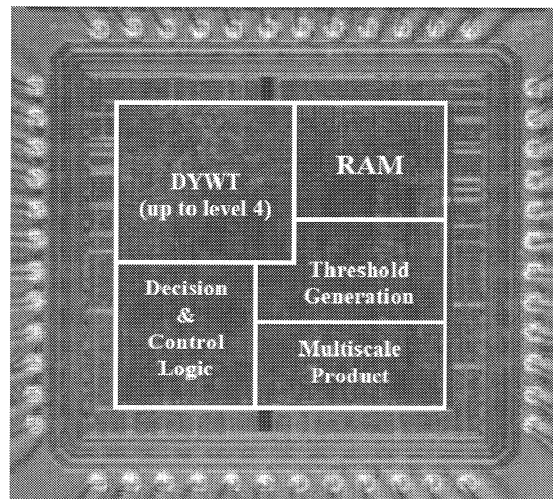


Figure 15

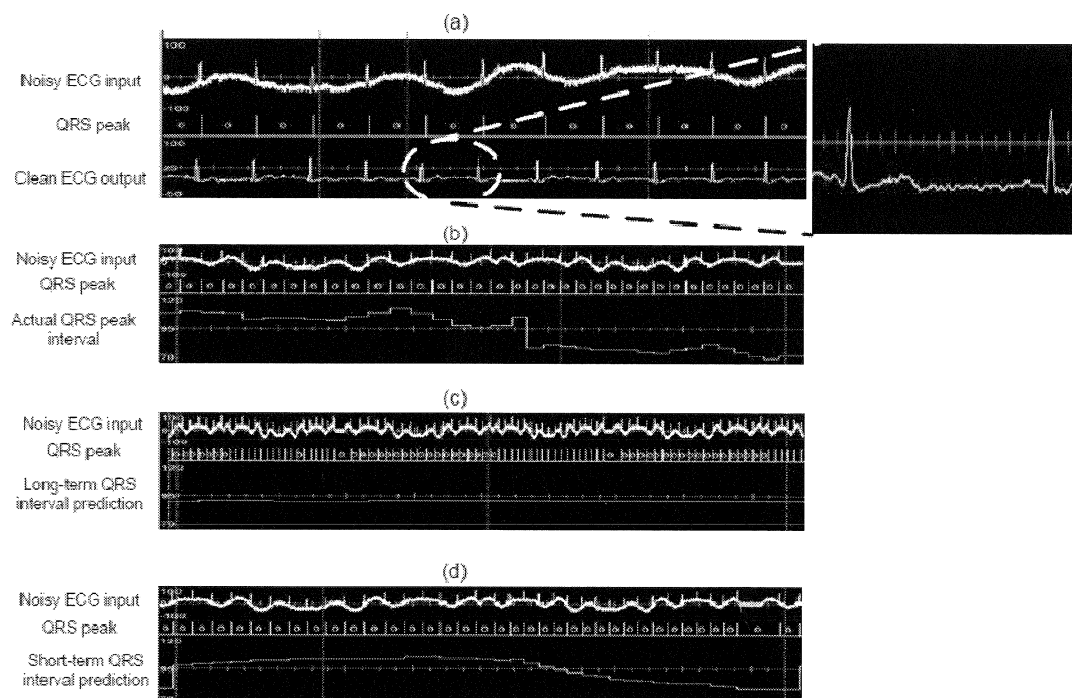


Figure 16

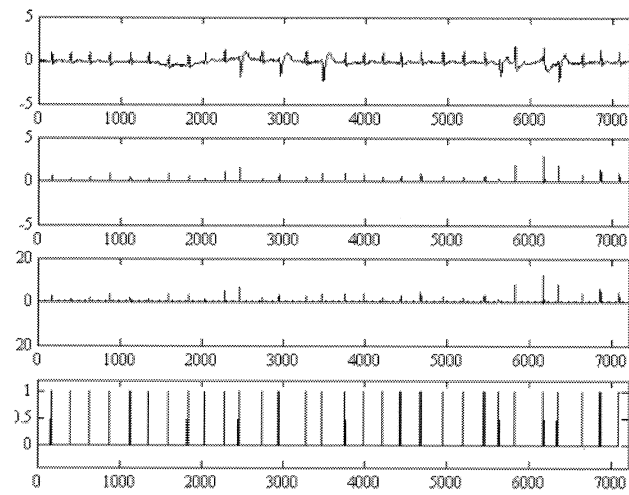


Figure 17A

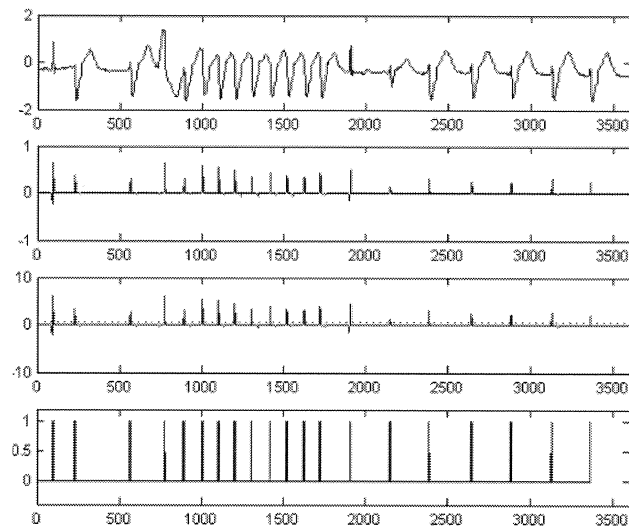


Figure 17B

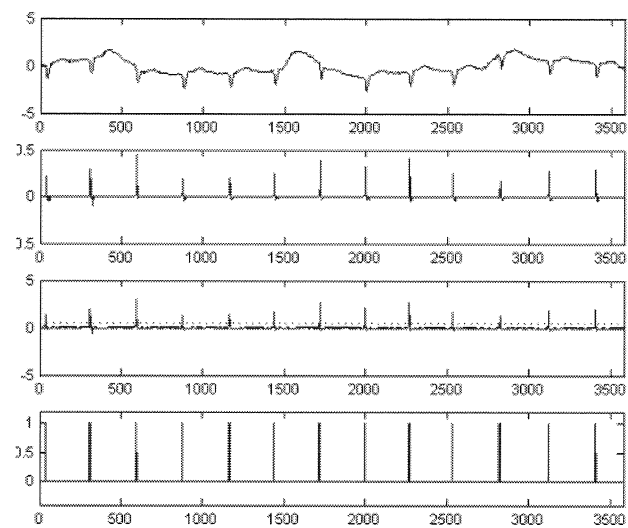


Figure 17C

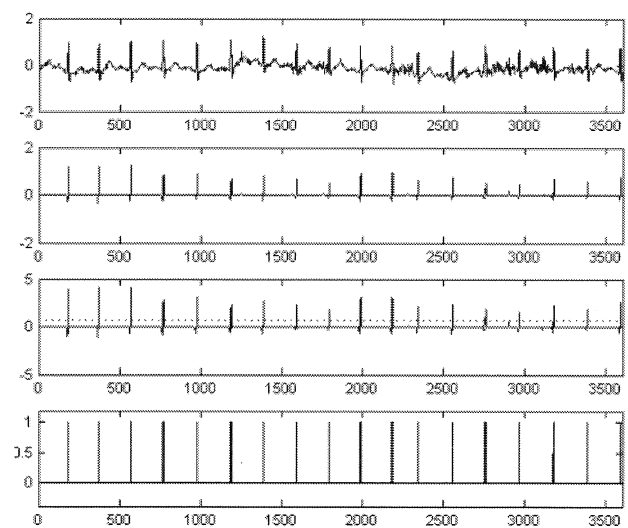


Figure 17D

TABLE I
THE PERFORMANCE OF THE ALGORITHM FOR THE MIT/BIH ARRHYTHMIA DATABASE

record	TP	FP	FN	FP + FN	Se (%)	+P (%)
100	2273	0	0	0	100.00	100.00
101	1865	0	2	2	99.89	100.00
102	2187	4	25	29	98.87	99.82
103	2084	0	1	1	99.95	100.00
104	2229	1	1	2	99.95	99.95
105	2572	16	31	47	98.81	99.38
106	2027	1	15	16	99.2	99.95
107	2137	2	12	14	99.5	99.91
108	1763	1	22	23	98.77	99.95
109	2532	0	0	0	100.00	100.00
111	2124	0	1	1	99.95	100.00
112	2539	0	2	2	99.91	100.00
113	1795	0	0	0	100.00	100.00
114	1879	0	1	0	99.95	100.00
115	1953	2	2	4	99.91	99.91
116	2412	12	2	14	99.91	99.5
117	1535	0	0	0	100.00	100.00
118	2275	0	8	8	99.65	100.00
119	1987	2	0	2	100.00	99.91
121	1863	0	1	1	99.95	100.00
122	2476	0	1	1	99.95	100.00
123	1518	0	2	2	99.91	100.00
124	1619	1	0	1	100.00	99.95
200	2601	24	5	29	99.81	99.08
201	1963	2	55	57	97.27	99.91
202	2136	0	11	11	99.49	100.00
203	2980	15	7	22	99.77	99.2
205	2656	0	2	0	99.91	100.00
207	1860	19	45	64	97.64	98.99
208	2955	1	129	130	95.82	99.95
209	3005	1	1	0	99.95	99.95
210	2650	1	29	30	98.92	99.95
212	2748	1	1	2	99.95	99.95
213	3251	0	5	5	99.84	100.00
214	2262	1	2	3	99.91	99.95
215	3363	0	1	1	99.95	100.00
217	2208	1	49	50	97.83	99.95
219	2154	0	3	3	99.86	100.00
220	2048	0	0	0	100.00	100.00
221	2427	4	4	8	99.84	99.84
222	2483	1	11	12	99.55	99.95
223	2605	0	4	4	99.85	100.00
228	2053	1	6	7	99.71	99.95
230	2256	0	0	0	100.00	100.00
231	1571	1	1	2	99.95	99.95
232	1780	0	0	0	100.00	100.00
233	3079	2	1	3	99.91	99.95
234	2753	0	0	0	100.00	100.00
Total	109291	117	500	617	99.54	99.89

Figure 18



Figure 19

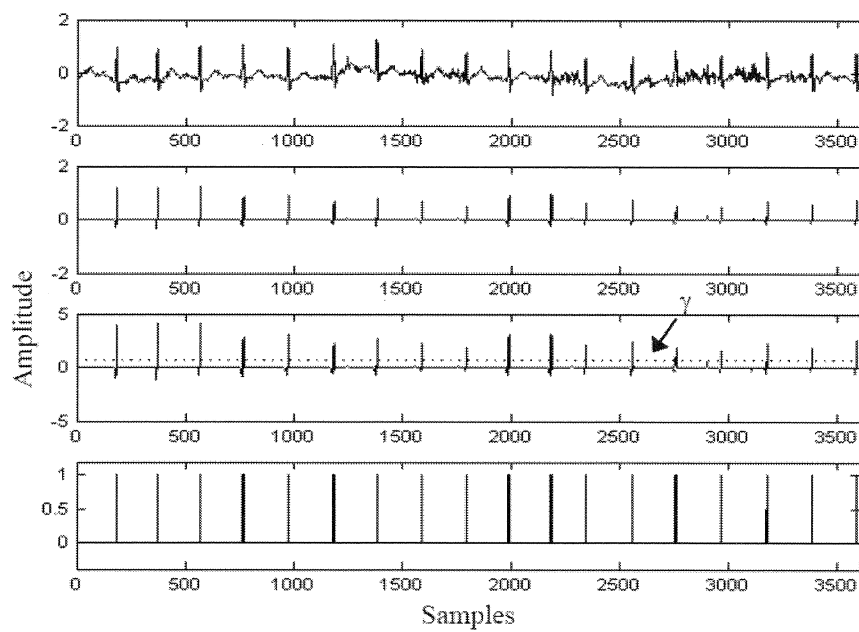


Figure 20

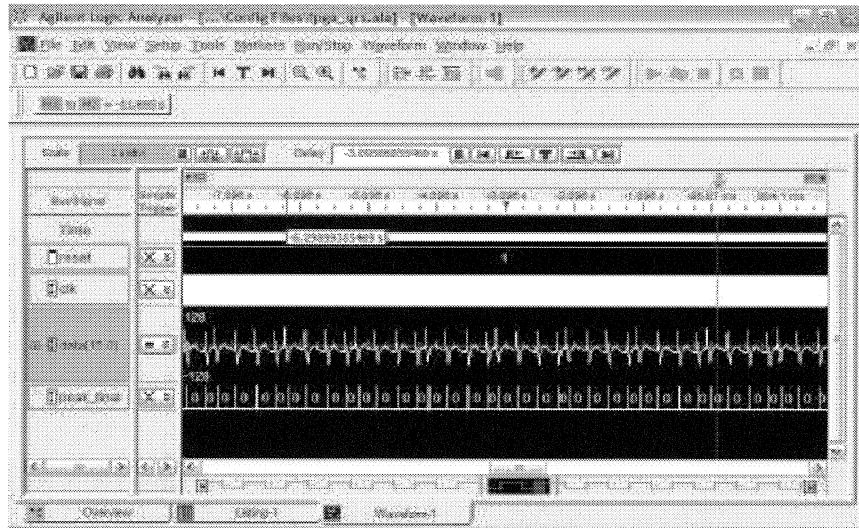


Figure 21