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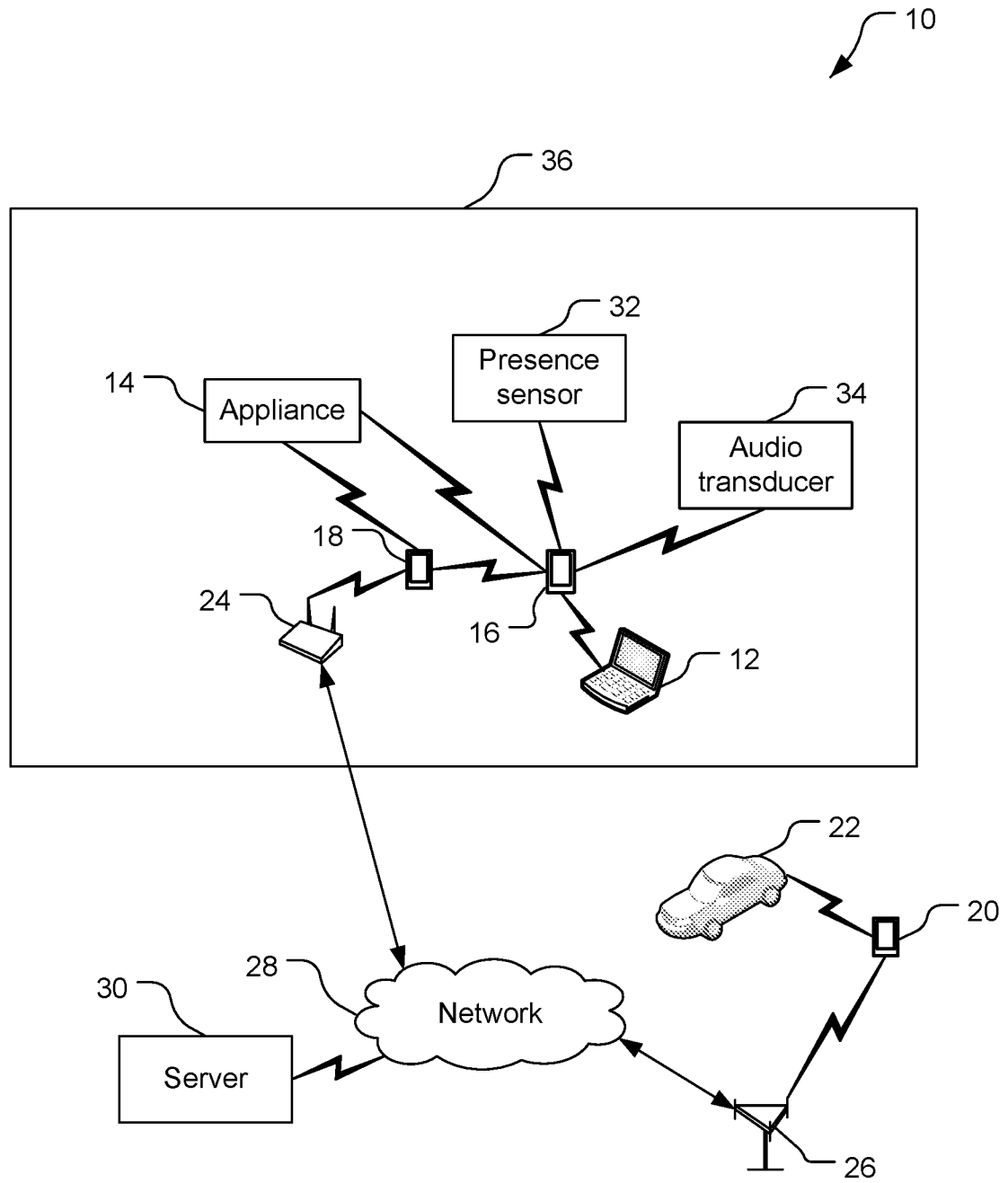


FIG. 1

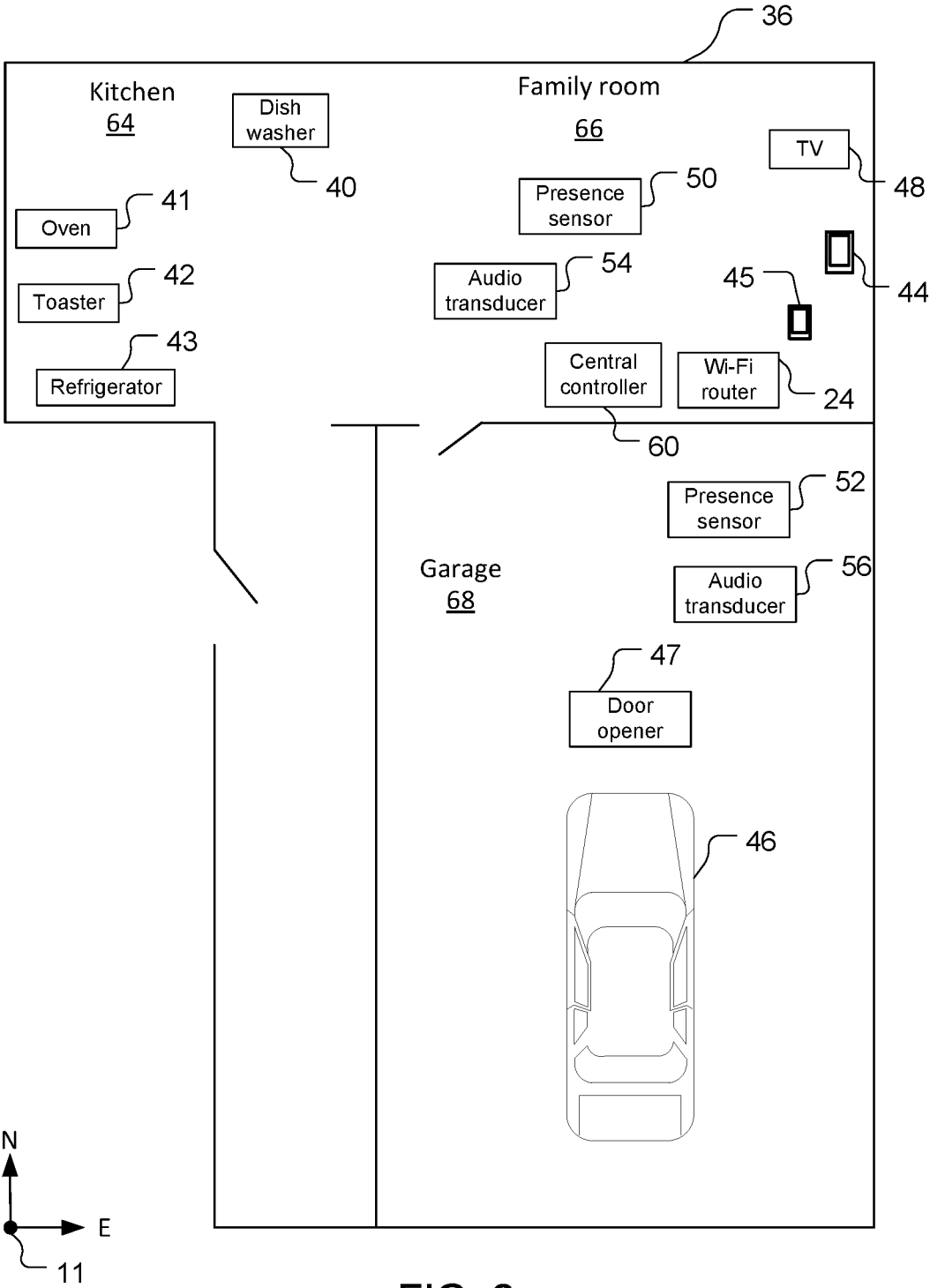


FIG. 2

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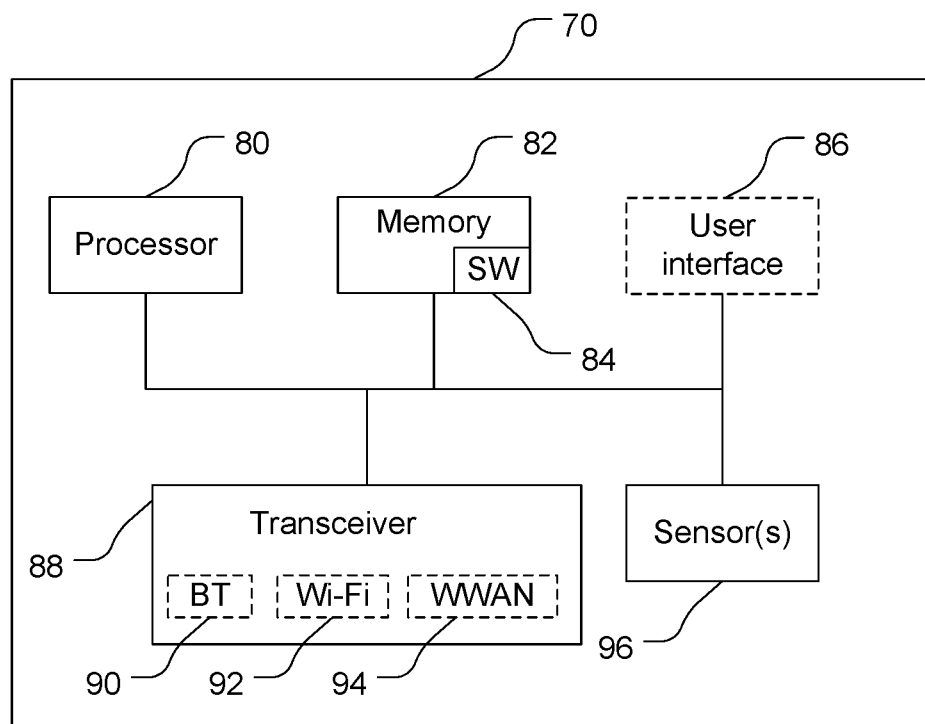


FIG. 3

110

Attribute	Device type	Device name/ID	Mobility	First position	First Pos Unc	Second position	Second Pos Unc	Second angle of arrival
Value	Refrigerator	Frigid	Stationary	ENU=[0, 0, 0] m	0 m	2.3 m	0.1 m	43°
Public (0) / private (1)	0	0	0	0	0	0	0	0

112 114 116 118 120 122 124 126 128 130 132

FIG. 4

150

Attribute	Device type	Device name/ID	Mobility	First position	First Pos Unc
Value	Mobile phone	Eldest child's phone	Mobile	LLA=[37.8°, -122.4°, 80m]	200 m
Public (0) / private (1)	0	0	0	1	1

152 154 156 158 160 162 164 166

FIG. 5

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600

Measuring device ID	Measured device ID	RTT	RSSI	RF channel characteristics	Latency	Time of day	Day	Activity level	Context ID
614	Wi-Fi router	3	3	234, 1.7, ...	23	20:00	Weekday	N/A	4
610 ₁	Wi-Fi router	5	1.5	114, 1.1, ...	17	20:00	Weekday	N/A	4
	Smoke detector - family room								
612 ₁	Wi-Fi router	2	4	458, 1.2, ...	12	20:00	Weekday	Low	4
	User1 phone								
610 ₂	Wi-Fi router	2	4	379, 1.2, ...	13	20:00	Weekday	None	4
	User1 keys								
612 ₂	Wi-Fi router	3	3	234, 1.7, ...	22	21:00	Weekday	N/A	4
	TV								
612 ₃	Wi-Fi router	5	1.5	114, 1.1, ...	18	21:00	Weekday	N/A	4
	Smoke detector - family room								
612 ₄	Wi-Fi router	2	4	458, 1.2, ...	12	21:00	Weekday	Low	4
	User1 phone								
610 ₃	Wi-Fi router	2	4	379, 1.2, ...	14	21:00	Weekday	None	4
	User1 keys								
612 ₄	Wi-Fi router	3	3	234, 1.7, ...	24	12:00	Weekday	N/A	3
	TV								
610 ₃	Wi-Fi router	5	1.5	114, 1.1, ...	17	12:00	Weekday	N/A	3
	Smoke detector - family room								

FIG. 6

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700

Measuring device ID	Measured device ID	RTT	RSSI	RF channel characteristics	Latency	Time of day	Day	Activity level	Context ID
Wi-Fi router	TV	3	3	217-234, 1.6-1.7, ...	22-23	21:00 - 22:00	Weekday	N/A	4
Wi-Fi router	Smoke detector - family room	5	1.5	114-124, 1.0-1.1, ...	17-18	21:00 - 22:00	Weekday	N/A	4
Wi-Fi router	User1 phone	2	4	428-458, 1.2, ...	12	21:00 - 22:00	Weekday	Low	4
Wi-Fi router	User1 keys	2	4	379-406, 1.2-1.4, ...	13-14	21:00 - 22:00	Weekday	None	4
Wi-Fi router	TV	3	3	234, 1.7, ...	24	12:00	Weekday	N/A	3
Wi-Fi router	Smoke detector - family room	5	1.5	114, 1.1, ...	17	12:00	Weekday	N/A	3

714

710₁

710₂

FIG. 7

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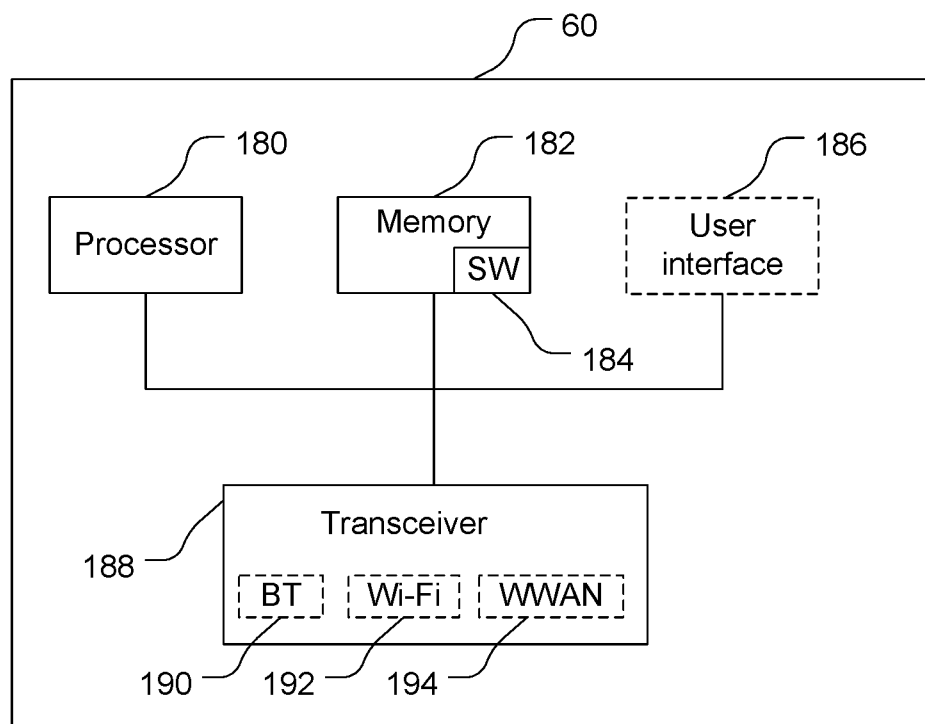


FIG. 8

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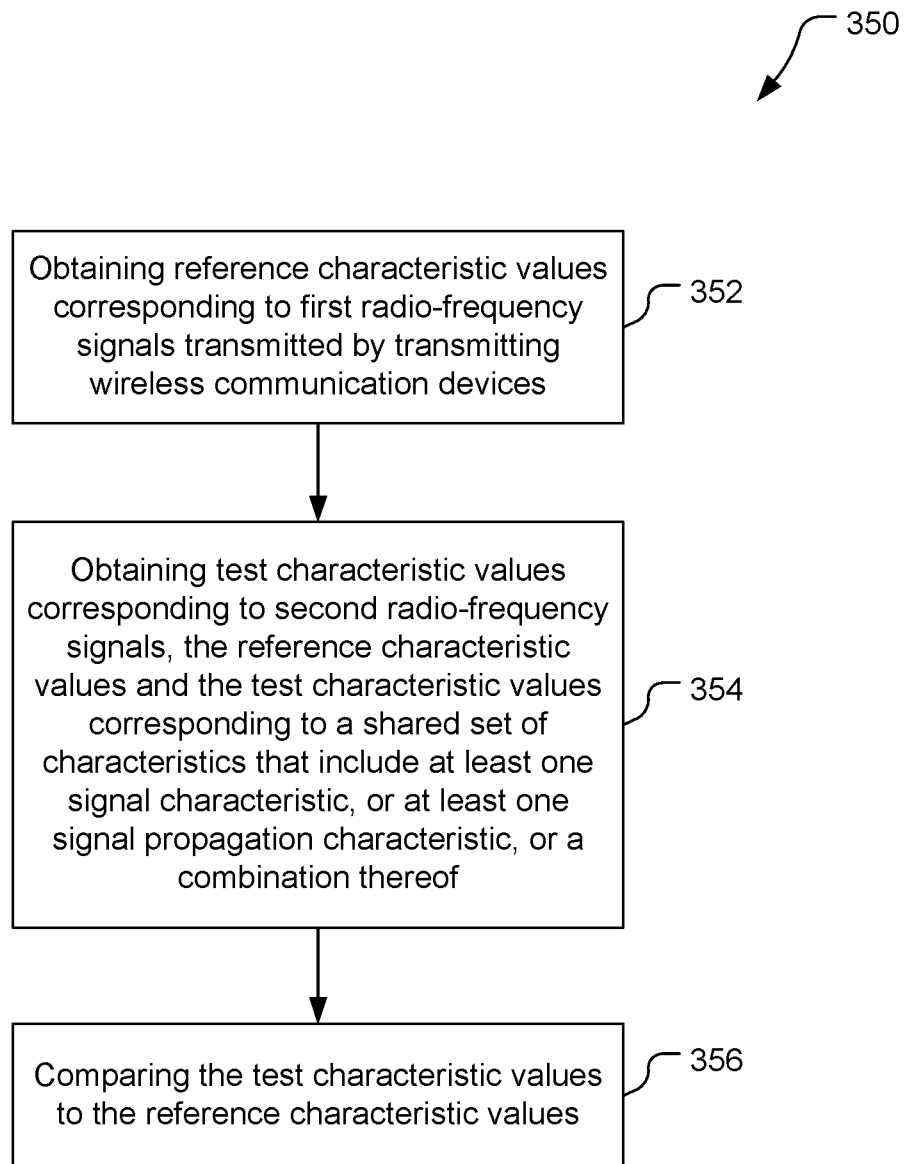


FIG. 9

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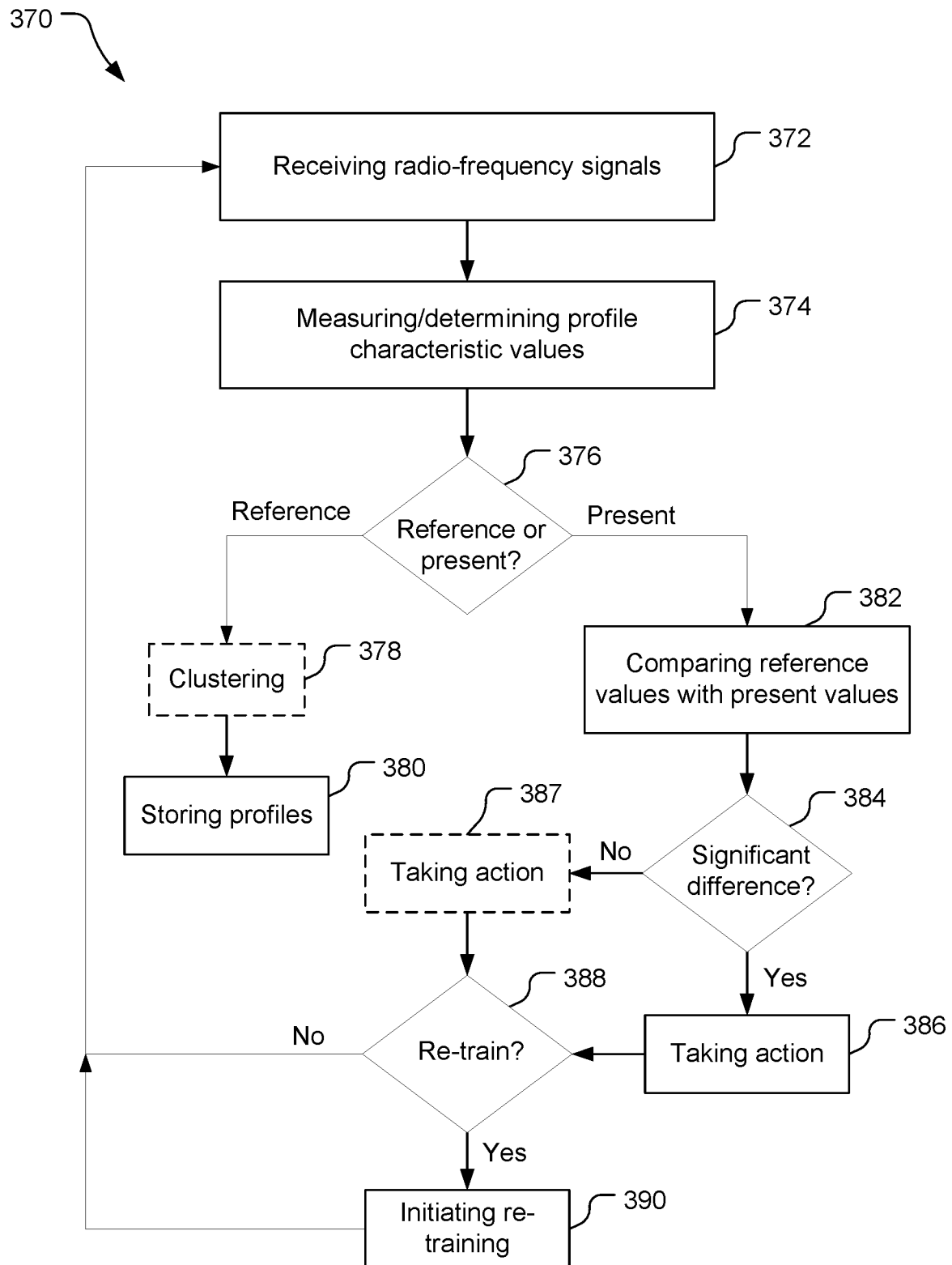


FIG. 10

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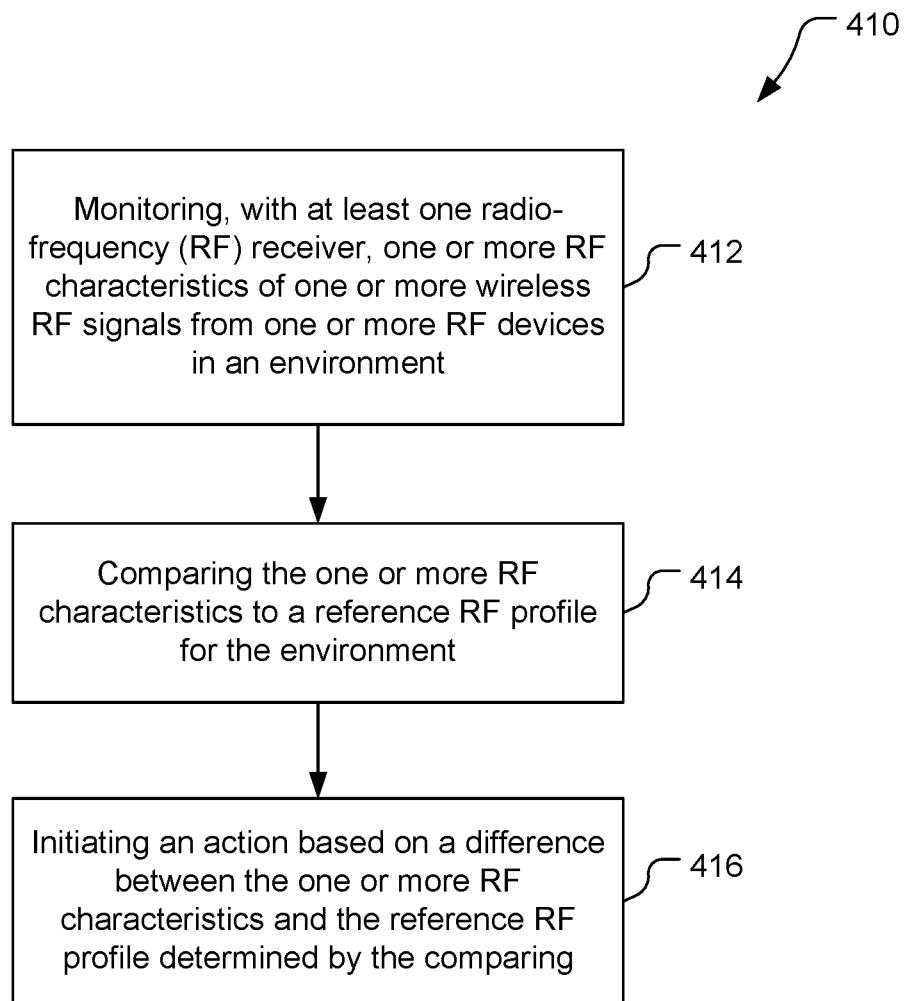


FIG. 11

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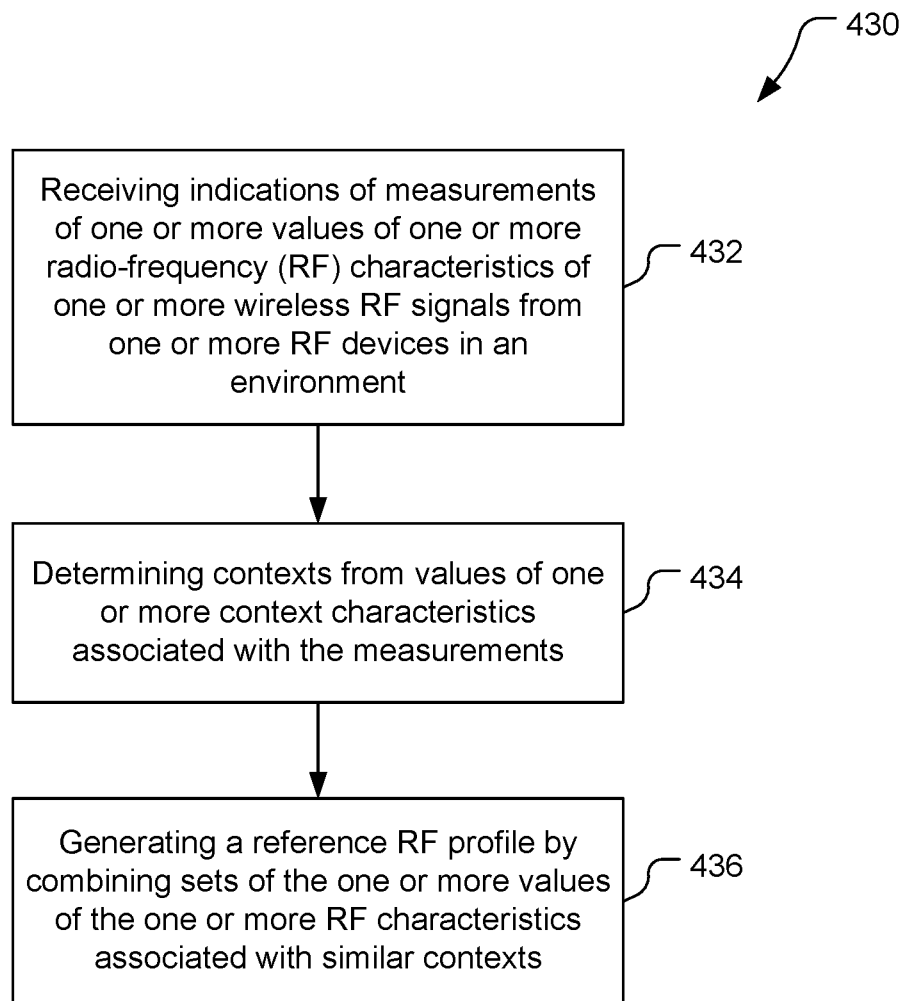


FIG. 12