

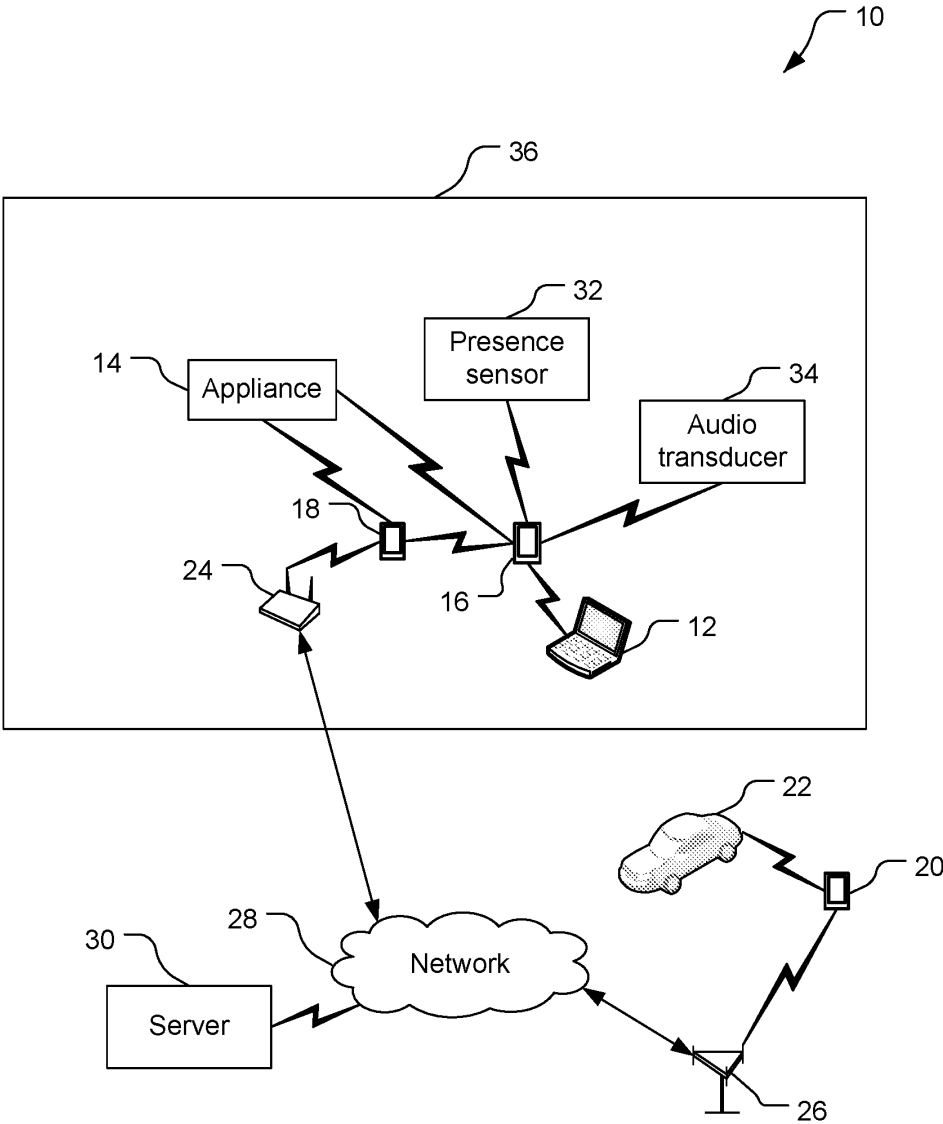


FIG. 1

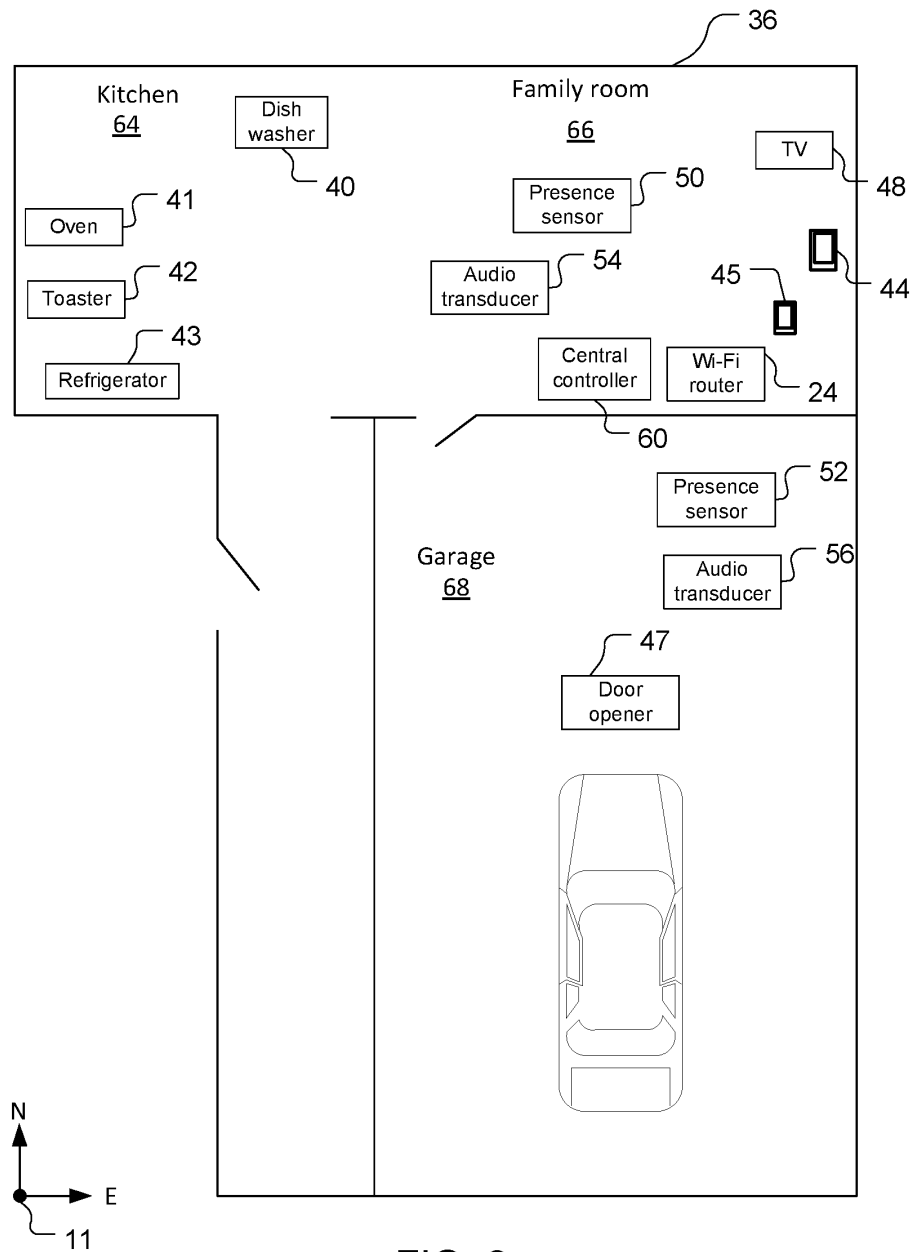


FIG. 2

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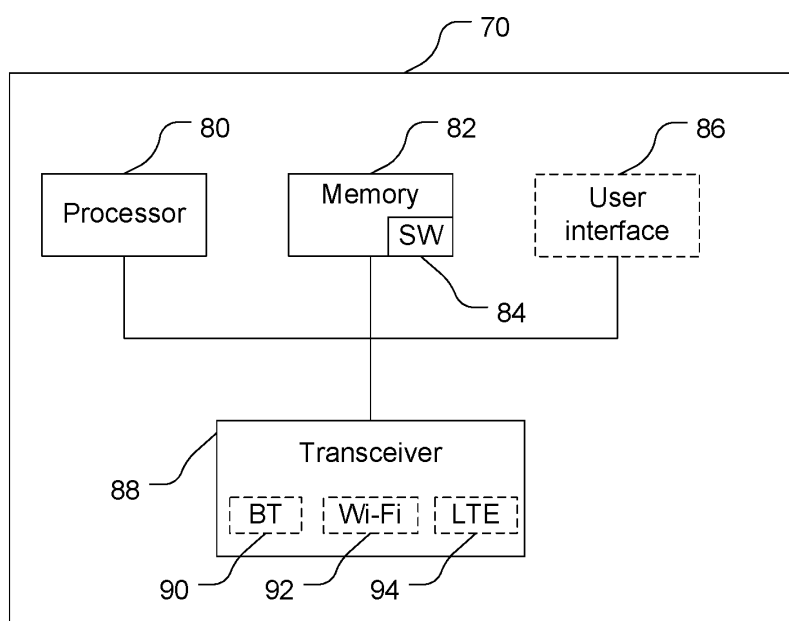


FIG. 3

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| 112                      | 118          | 120            | 122        | 124             | 126           | 128             | 130            | 132                     |
|--------------------------|--------------|----------------|------------|-----------------|---------------|-----------------|----------------|-------------------------|
| Attribute                | Device type  | Device name/ID | Mobility   | First position  | First Pos Unc | Second position | Second Pos Unc | Second angle of arrival |
| Value                    | Refrigerator | Frigd          | 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                       |

FIG. 4

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| 152                      | 158          | 160                  | 162      | 164                        | 166           |
|--------------------------|--------------|----------------------|----------|----------------------------|---------------|
| Attribute                | Device type  | Device name/ID       | Mobility | First position             | First Pos Unc |
| Value                    | Mobile phone | Eldest child's phone | Mobile   | LLA=[37.3° - 122.4° , 80m] | 200 m         |
| Public (0) / private (1) | 0            | 0                    | 0        | 1                          | 1             |

FIG. 5

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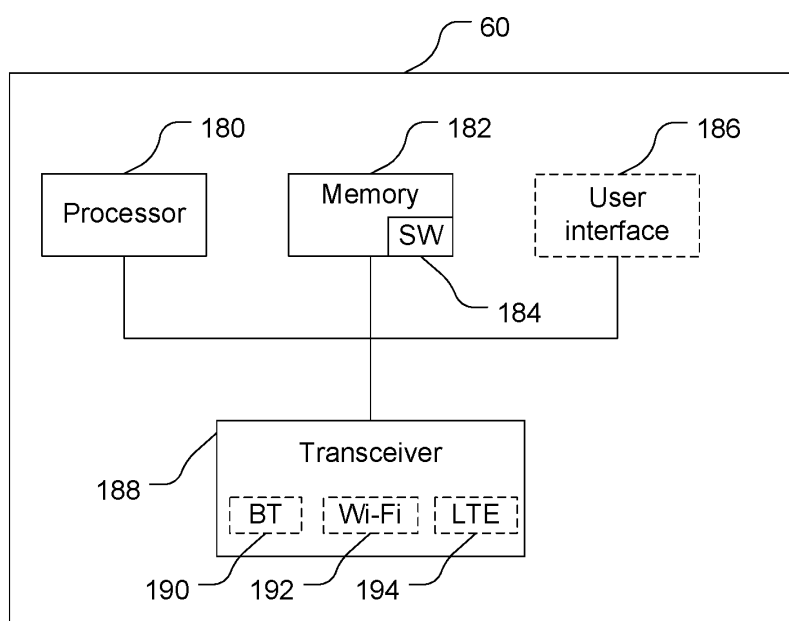


FIG. 6

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| Device | Device ID | Attributes    | Neighbor list  | Communication history | Location history | Range history   | Entity |
|--------|-----------|---------------|----------------|-----------------------|------------------|-----------------|--------|
| Tablet | 1234      | {set1, time1} | {list1, time3} | [device1, time6]      | {loc1, time10}   | {r1, ref5, t12} | Weihua |
|        | 230       | {set2, time2} | {list2, time4} | [device2, time7]      | {loc2, time11}   | {r2, ref6, t13} |        |
|        | 232       |               | {list3, time5} | [device3, time8]      |                  | {r3, ref7, t13} |        |
| TV     |           |               |                | [device4, time9]      |                  | {r4, ref5, t13} |        |

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FIG. 7

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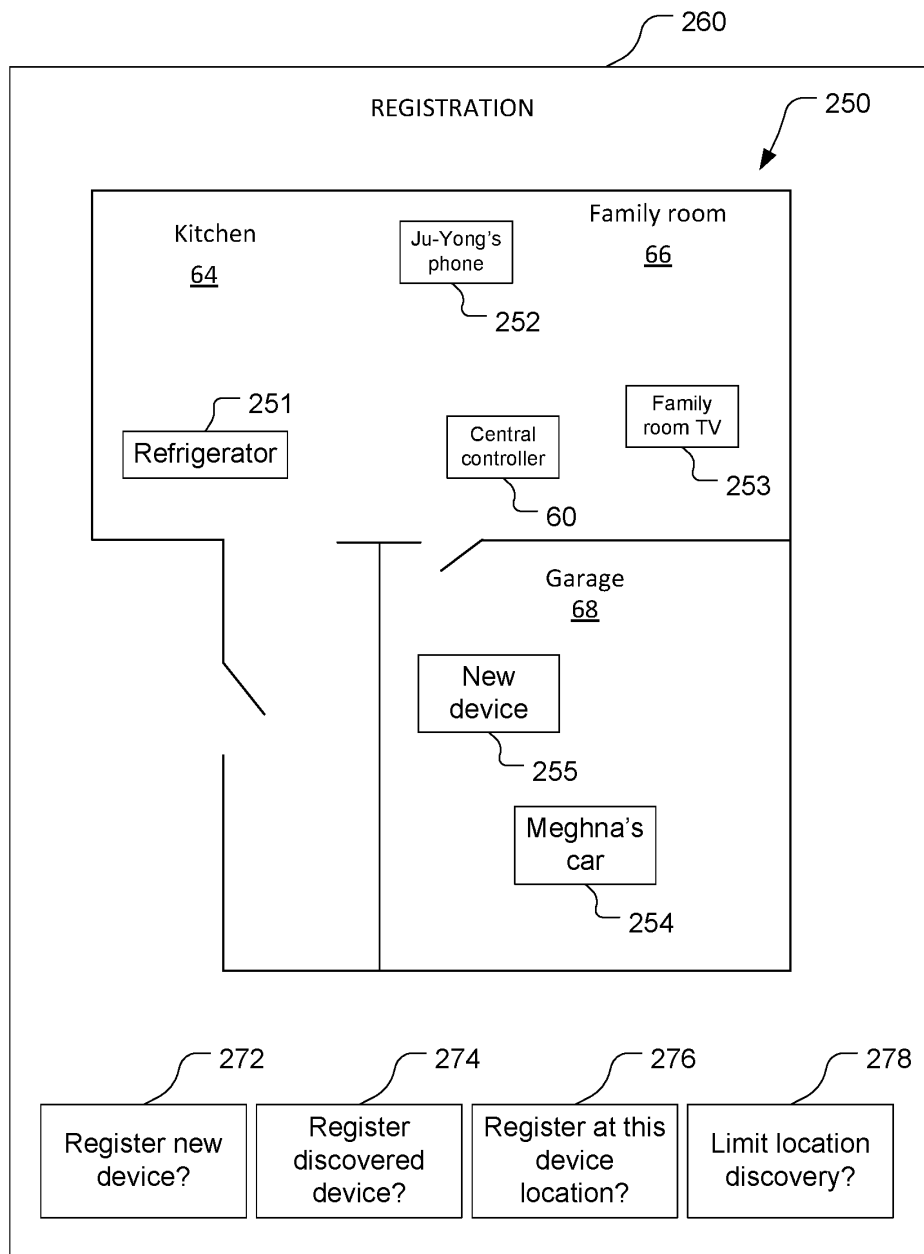


FIG. 8

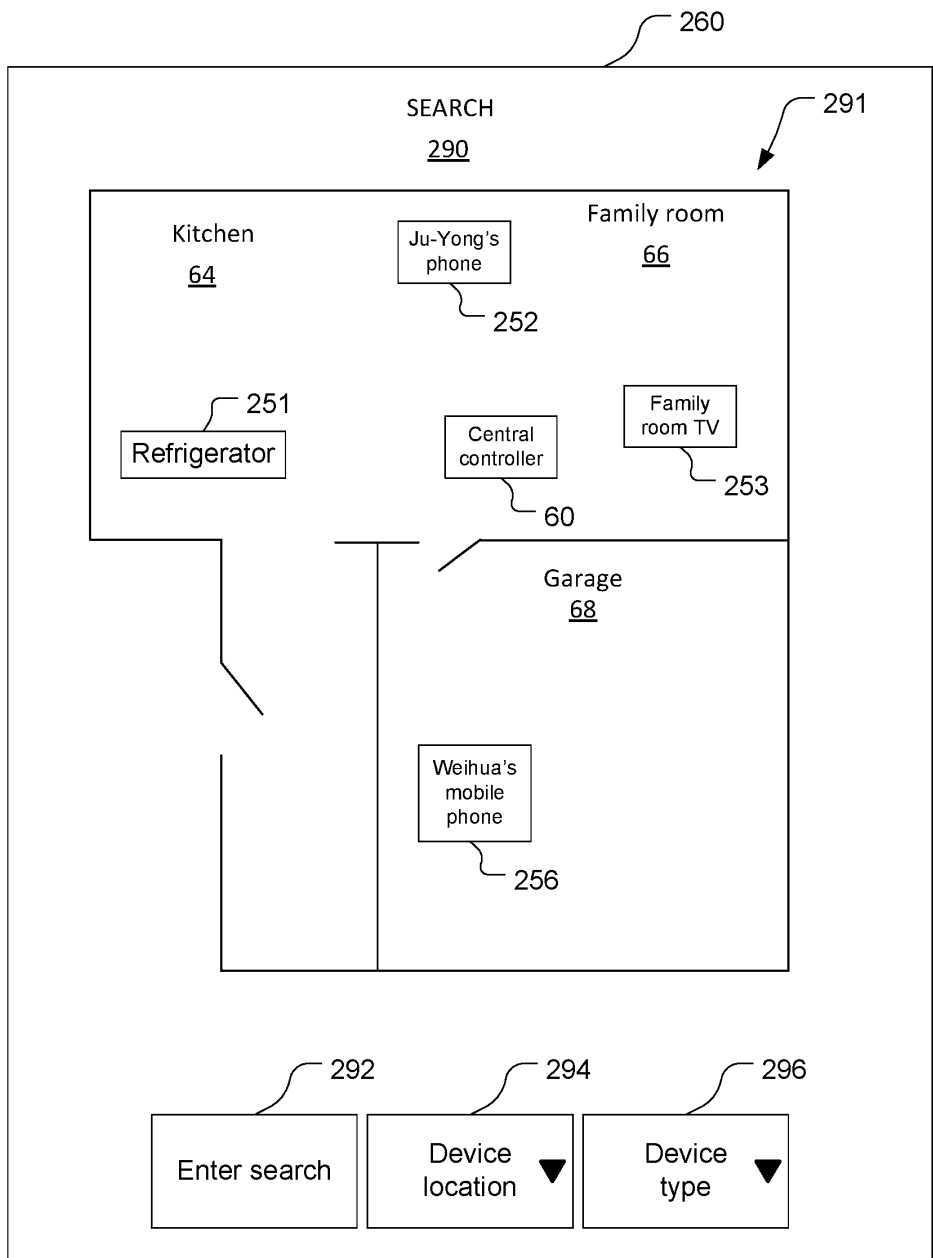


FIG. 9

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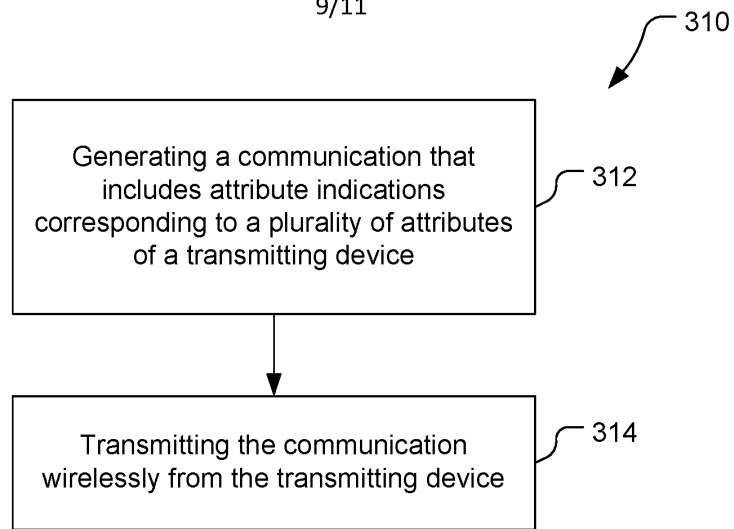


FIG. 10

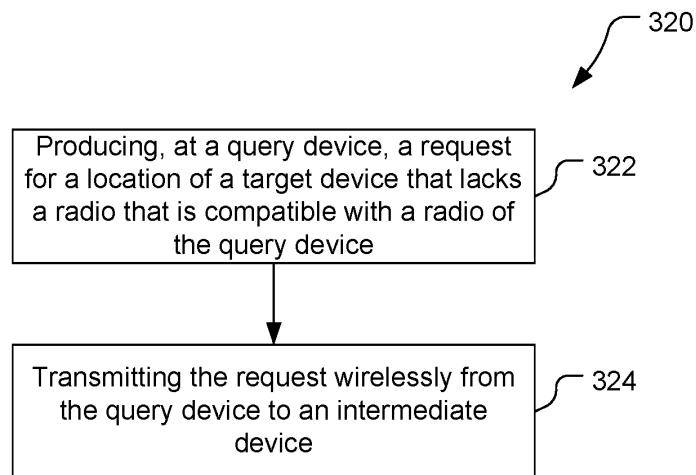


FIG. 11

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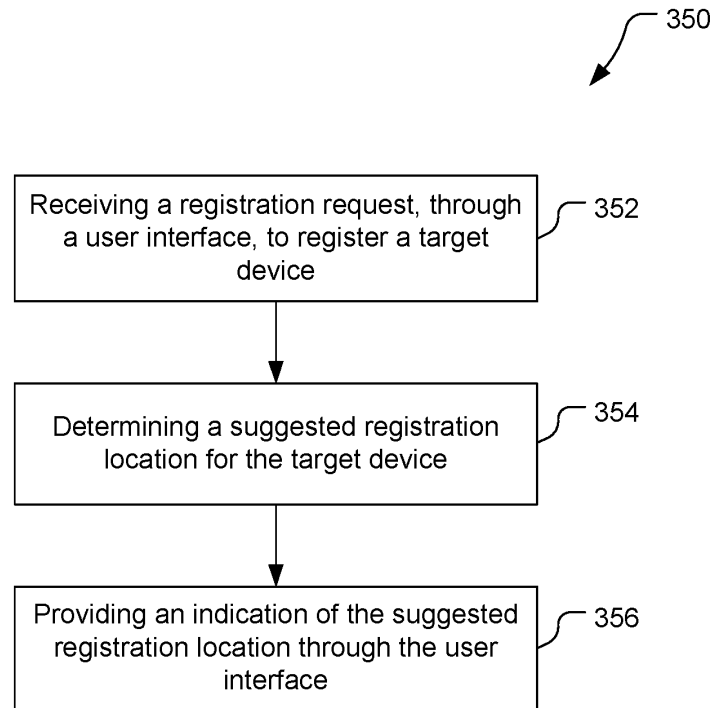


FIG. 12

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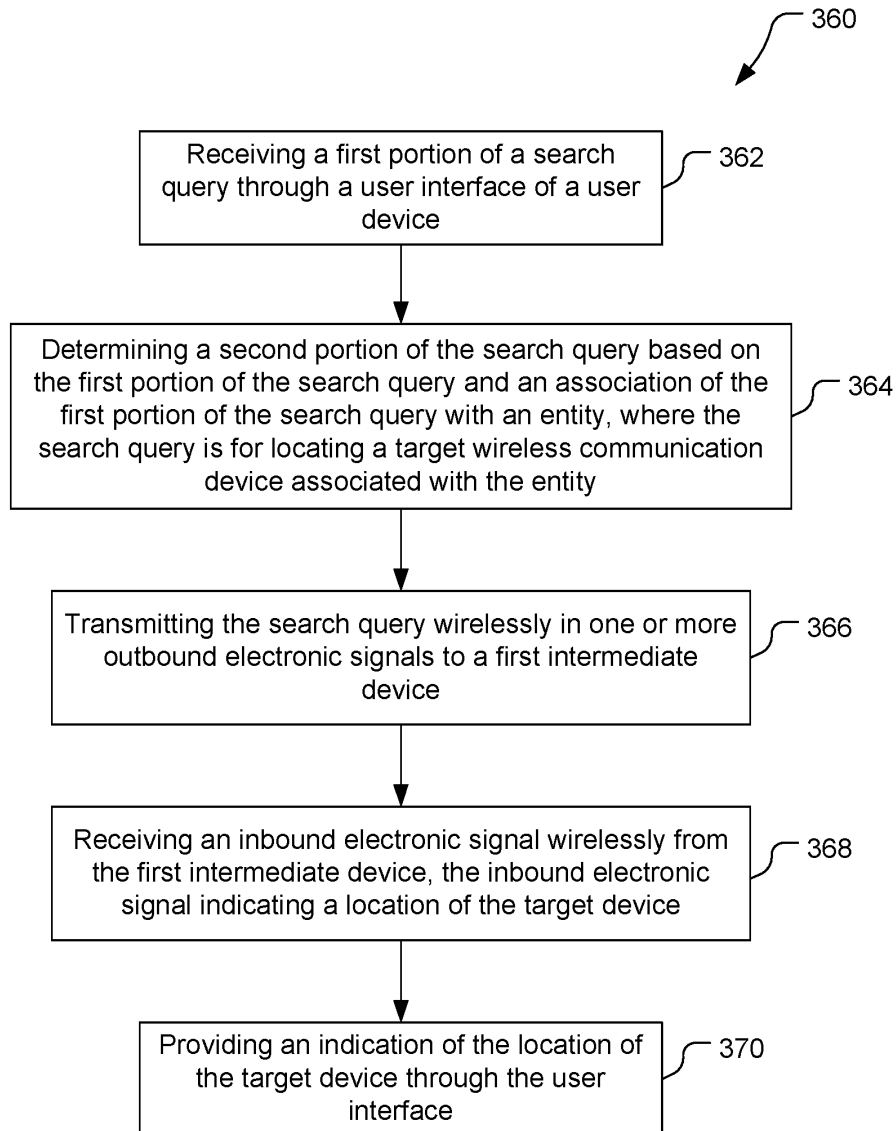


FIG. 13