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(54) **COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR LOCATING AN INDOOR OBJECT**

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See application file for complete search history.

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(57) **ABSTRACT**

A computer-implemented method for locating an indoor object includes: a) receiving an RF coordinate signal and a detecting signal; b) providing information of a located region with reference to the RF coordinate and the detecting signal; c) obtaining a motion sensor coordinate according to the information of the located region; d) providing weights for the RF coordinate and the motion sensor coordinate; e) applying the weights to the RF coordinate and the motion sensor coordinate; and f) combining the weighted RF coordinate and the weighted motion sensor coordinate to generate a fused coordinate corresponding to the position of the indoor object. A system for locating an indoor object is also disclosed.

14 Claims, 8 Drawing Sheets

