

# EXHIBIT A



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(12) **United States Patent**  
**Aksamit**

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(54) **METHOD AND SYSTEM FOR CONTEXT AWARENESS OF A MOBILE DEVICE**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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This patent is subject to a terminal disclaimer.

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(21) Appl. No.: **15/719,881**

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**Related U.S. Application Data**

(63) Continuation of application No. 15/377,414, filed on Dec. 13, 2016, now Pat. No. 9,807,564, which is a (Continued)

(30) **Foreign Application Priority Data**

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(51) **Int. Cl.**

**H04W 24/00** (2009.01)

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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

CPC ..... H04W 4/027; H04W 4/025; H04W 24/02; H04W 24/00; H04W 52/0254;

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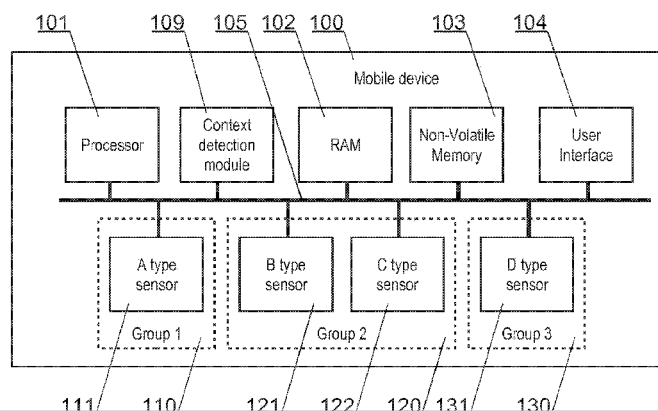
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(57) **ABSTRACT**

A method for detecting a context of a mobile device (100) equipped with sensors (111, 121, 122, 131) and a context detection module (109) in which the sensors (111, 121, 122, 131) are assigned to at least two groups (110, 120, 130), each of which comprises at least one sensor (111, 121, 122, 131), and each group (110, 120, 130) is allocated a group classifier (116, 126, 136) adapted to detect, in a form of a classification result, currently identified, by means of a given classifier, context of the device (100) based on indications of the sensors (111, 121, 122, 131) belonging to the given group, characterized in that with a use of the context detection module, whereas the groups (110, 120, 130) of sensors are ordered hierarchically, and the device context is detected 1 by reading a classification result indicated by the classifier (116, 126, 136) of the currently active group, wherein in case of detection of an identified context in the active group, switching on power supply of the sensors and activating classification in a group (110, 120, 130) with a level higher by one level and reading the context indicated

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## US 10,142,791 B2

Page 2

by said group's classifier, wherein based on the 20 results of the classification indicated by the higher groups' classifiers (116, 26, 136), executing adaptation of the configuration of lower groups' classifiers (116, 126, 136).

## 20 Claims, 5 Drawing Sheets

## Related U.S. Application Data

continuation of application No. 14/745,433, filed on Jun. 21, 2015, now Pat. No. 9,549,292, which is a continuation of application No. 14/346,985, filed as application No. PCT/EP2013/052187 on Feb. 5, 2013, now Pat. No. 9,107,093.

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*H04W 52/02* (2009.01)  
*H04W 24/02* (2009.01)  
*H04M 1/725* (2006.01)  
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*H04L 29/08* (2006.01)

## (52) U.S. Cl.

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## (58) Field of Classification Search

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 See application file for complete search history.

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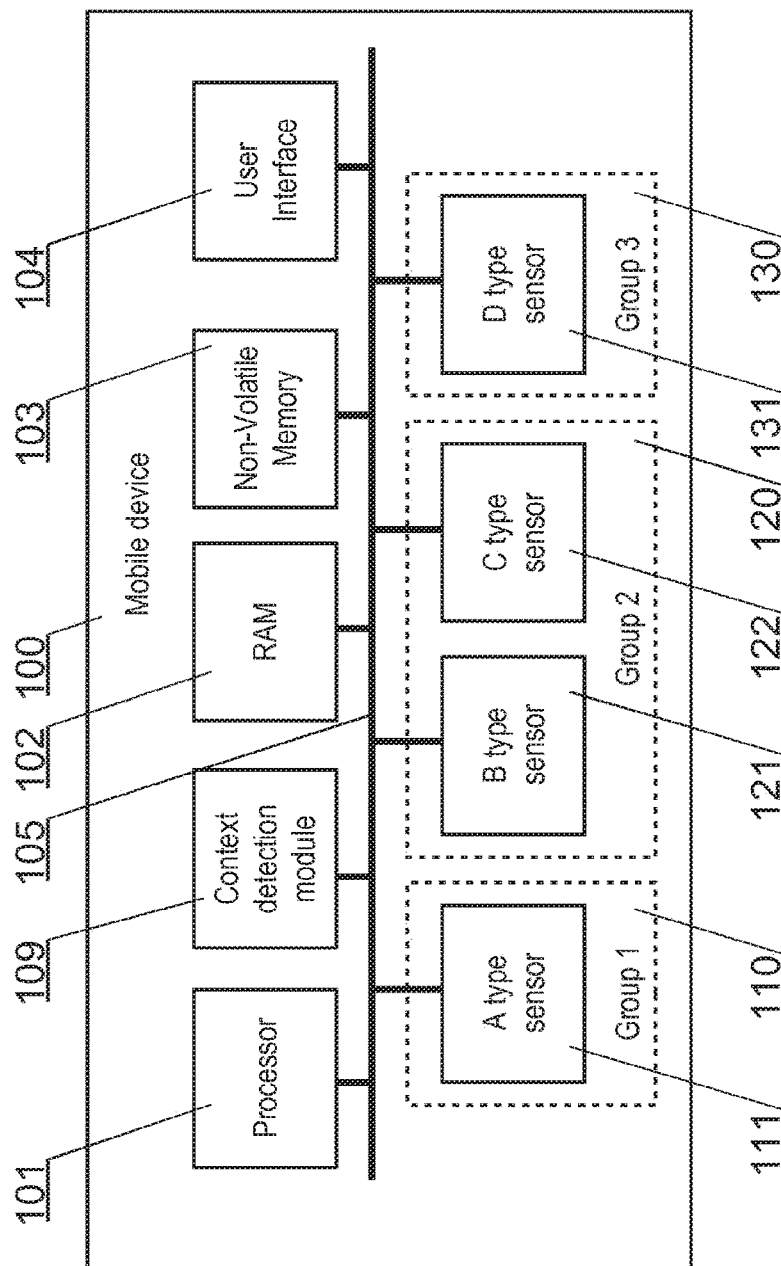


Fig. 1

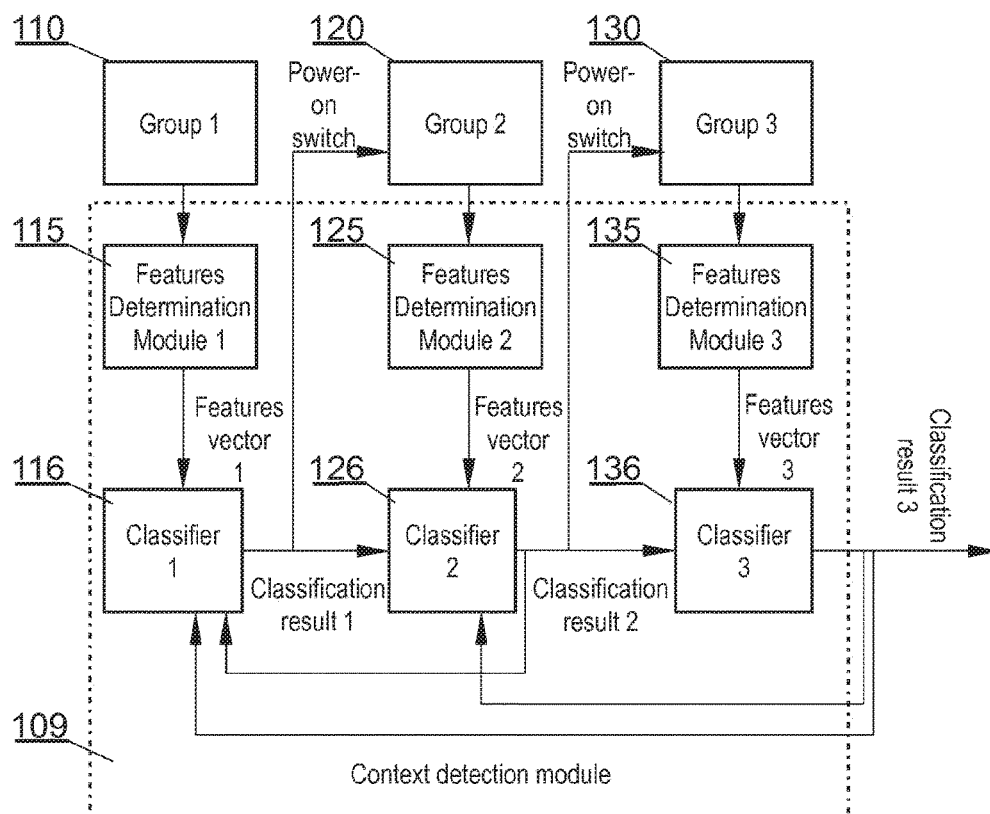


Fig. 2

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