

(12) United States Patent Tal et al.

(54) DEVICE ACTIONS BASED ON DEVICE **POWER**

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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 47 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 14/619,918

(22) Filed: Feb. 11, 2015

(65)**Prior Publication Data**

> US 2015/0156613 A1 Jun. 4, 2015

Related U.S. Application Data

- (63) Continuation of application No. 13/588,940, filed on Aug. 17, 2012, now Pat. No. 8,989,818, which is a (Continued)
- (51) **Int. Cl.** H04W 4/00 (2018.01)H04W 4/12 (2009.01)(Continued)
- (52) U.S. Cl. CPC H04W 4/12 (2013.01); G06O 50/01 (2013.01); H04L 67/10 (2013.01); H04L 67/26 (2013.01);

(Continued)

US 10.136.267 B2 (10) Patent No.:

(45) **Date of Patent:**

*Nov. 20, 2018

(58)Field of Classification Search

CPC G06Q 50/01; H04W 52/0261; H04W 4/12; H04L 51/26; H04L 51/32

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

2003/0006911 A1 1/2003 Smith 2004/0264436 A1 12/2004 Hassan et al. (Continued)

FOREIGN PATENT DOCUMENTS

CN 1428968 A 7/2003 EP1962473 A1 8/2008 (Continued)

OTHER PUBLICATIONS

Notification of defects in Israeli Patent Application No. 232430 (Israeli Office Action), State of Israel Ministry of Justice (with English Translation), dated Aug. 19, 2015.

(Continued)

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ABSTRACT

In one embodiment, one or more computing devices determine, substantially in real time and locally at a mobile device, one or more current dynamic operating conditions of the mobile device related to energy consumption by the mobile device. The computing devices identify a pre-determined device state that corresponds to the current dynamic operating conditions of the mobile device and determine, based at least in part on the pre-determined device state, an action for the mobile device to take, the action being related to energy consumption by the mobile device.

17 Claims, 12 Drawing Sheets

