

Apple Inc. (Petitioner)  
v.  
Qualcomm Incorporated (Patent Owner)  
Petitioner Demonstratives

Case Nos. IPR2018-01281 & IPR2018-01282

U.S. Patent No. 8,768,865

Before Hon. Daniel N. Fishman, Michelle N. Wormmeester, and

Amanda F. Wieker

Administrative Patent Judges

# Table of Contents

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## **1. Wang-based grounds prevail under correct claim construction**

- 1A. Wang discloses using Table 1 to identify states
- 1B. Wang discloses using both Table 1 and XML file to identify states

## **2. Petitioner correctly construes “fixing” limitations**

- 2A. Fixing is construed by Petitioner, not removed
- 2B. Petitioner’s construction of fixing is distinct of identifying
- 2C. PO’s construction imports extraneous limitations

## **3. Wang-based grounds prevail even under PO’s narrow construction**

- 3A. Wang discloses additional mappings satisfying the claims
- 3B. Petitioner’s reliance on additional mappings are timely and complete

## **4. Louch-based grounds prevail even under PO’s narrow construction**

- 4A. Louch’s 1<sup>st</sup> mapping under the learning mode theory satisfies the claims
- 4B. A POSITA would appreciate Louch’s “duration” pattern includes a “first pattern”
- 4C. Louch discloses setting the scope of analysis for confirming a “duration”

## **5. Dependent claims are addressed by both Wang and Louch**

- 5A. [Claims 4&23] Wang discloses alleged causation
- 5B. [Claims 4&23] Louch discloses recognizing 2<sup>nd</sup> pattern in a reduced set of parameters
- 5C. [Claims 5,24&48] Louch discloses taking “snapshots” in response to detecting condition


# Overview of the '865 Patent

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# '865 Patent Overview

- U.S. Patent No. 8,768,865 (the "865 Patent") claims an earliest priority date of 01/19/2011.
- The '865 Patent includes 53 claims, of which claims 1, 21, 31 and 46 are independent.
- The '865 Patent's claims are directed generally toward machine learning of situations via pattern matching or recognition for use in or with mobile communication devices.
- IPR2018-01281 challenges the '865 Patent's claims 1-6, 8-25, 27-30, 46-49, 51-53.
- IPR2018-01282 challenges the '865 Patent's claims 1-10, 12-30, 46-53.

APPLE-1001, 1:21-23; 01281Pet., 4; 01282Pet., 4.



**United States Patent**  
 (12) Narayanan et al. (10) Patent No.: **US 8,768,865 B2**  
 (45) Date of Patent: **Jul. 1, 2014**

(54) LEARNING SITUATIONS VIA PATTERN MATCHING

(75) Inventors: Vidya Narayanan, San Diego, CA (US); Sanjiv Nanda, Ramona, CA (US); Fuming Shih, Cambridge, MA (US)

(73) Assignee: Qualcomm Incorporated, San Diego, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 250 days.

(21) Appl. No.: 13249,516

(22) Filed: **Oct. 7, 2011**

(65) Prior Publication Data  
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(60) Provisional application No. 61/434,400, filed on Jan. 19, 2011.

(51) Int. Cl. (2006.01) **G06F 1/20**  
 (2006.01) **G06F 15/00**  
 (2010.01)

(52) U.S. Cl. (2010.01) **706/12; 702/127**

(58) Field of Classification Search  
 CPC: **G06N 99/005** (2013.01)  
 USPC: **706/12; 702/127**

See application file for complete search history.

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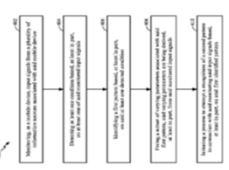
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(57) **ABSTRACT**  
 Example methods, apparatuses, or articles of manufacture are disclosed herein that may be utilized, in whole or in part, to facilitate machine learning of situations via pattern matching or recognition.

**53 Claims, 5 Drawing Sheets**



APPLE-1001 ('865 Patent).



# '865 Patent: Claim 1

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## '865 Patent

1. A method comprising:
  - monitoring, at a mobile device, input signals from a plurality of information sources associated with said mobile device;
  - detecting at least one condition based, at least in part, on at least one of said monitored input signals;
  - identifying a first pattern based, at least in part, on said at least one detected condition; and
  - fixing a subset of varying parameters associated with said first pattern by associating at least one parameter of said subset of varying parameters with said first pattern to represent said at least one detected condition, said varying parameters derived, at least in part, from said monitored input signals.

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