

# (12) United States Patent

### Anantharaman

## (54) METHOD FOR TRACKING A MOBILE DEVICE ONTO A REMOTE DISPLAYING

(71) Applicant: NAGRAVISION S.A.,

Cheseaux-sur-Lausanne (CH)

Subramanian Anantharaman, Inventor:

Bangalore (IN)

Assignee: NAGRAVISION S.A.,

Cheseaux-sur-Lausanne (CH)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/397,323

(22) PCT Filed: May 23, 2013

(86) PCT No.: PCT/EP2013/060656

§ 371 (c)(1),

(2) Date: Oct. 27, 2014

(87) PCT Pub. No.: WO2013/178533

PCT Pub. Date: Dec. 5, 2013

(65)**Prior Publication Data** 

> US 2015/0141061 A1 May 21, 2015

### Related U.S. Application Data

(60) Provisional application No. 61/652,883, filed on May 30, 2012.

#### (30)Foreign Application Priority Data

May 30, 2012 (EP) ...... 12169948

(51) Int. Cl.

H04W 24/00 (2009.01)H04W 4/02 (2009.01)

(Continued)

US 9,148,757 B2

(45) **Date of Patent:** 

(10) **Patent No.:** 

Sep. 29, 2015

(52) U.S. Cl.

CPC ...... H04W 4/02 (2013.01); H04W 4/028 (2013.01); H04W 12/02 (2013.01); H04L 67/24

(2013.01); H04W 88/14 (2013.01)

Field of Classification Search

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

2002/0080968 A1 6/2002 Olsson 2004/0106415 A1 6/2004 Maeda et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1631107 3/2006

OTHER PUBLICATIONS

International Search Report issued in International Application No. PCT/EP2103/060656 dated Nov. 4, 2013.

(Continued)

Primary Examiner — Suhail Khan

(74) Attorney, Agent, or Firm — DLA Piper LLP US

**ABSTRACT** 

The present invention refers to a method for tracking at least one mobile device onto a remote displaying unit through a mobile switching center connected to the mobile device by a wireless communication network and through a head-end linked to the mobile switching center and connected to the remote displaying unit by a second communication network different to the wireless communication network. The mobile device is identified by a mobile device identifier. The remote displaying unit is identified by a remote displaying unit identifier and is provided with a module for processing messages coming from the head-end identified by a head-end identifier. The mobile device is provided with a locating unit able to determine its current location and with a communication unit for supporting at least an instant messaging service.

### 19 Claims, 2 Drawing Sheets

