

TECHREPORT

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CONTENTS



pg 03

Method and Apparatus
for Transmission
Synchronization



pg 03

Video Decoding Method



pg 04

Crum Chip and Image
Forming Device for
Authentication, and
Communication, and
Methods thereof



pg 04

Registration Method
and System for Secure
Online Banking



pg 05

Protocols for Enabling
Mode 1 and Mode 2
Devices in TV White
Space Networks



pg 05

Multiple display method
with multiple
communication
terminals,
machine-readable
storage medium, and
communication
terminal



pg 06

Microcontroller
configured for external
memory decryption

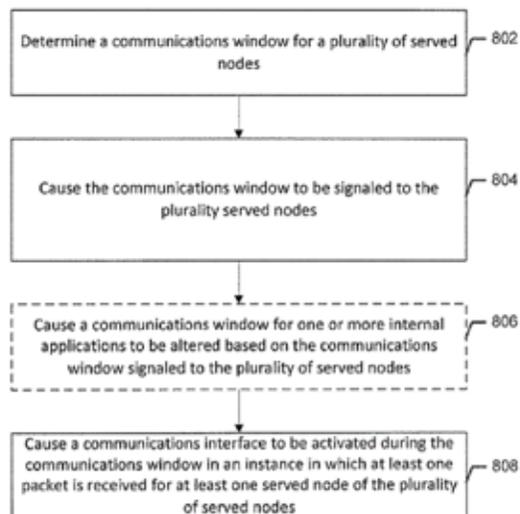


01 Method and Apparatus for Transmission Synchronization

Patent No: 2014/07959
Applicant: NOKIA Technologies OY

Abstract

Various methods are described for determining a communications window for served nodes and internal applications in order to optimize power consumption. One example method may comprise determining a communications window for a plurality of served nodes. The method of this embodiment may also include causing the communications window to be signalled to the plurality served nodes. The method of this embodiment may also include causing a communications interface to be activated during the communications window in an instance in which at least one packet is received for at least one served node of the plurality of served nodes.

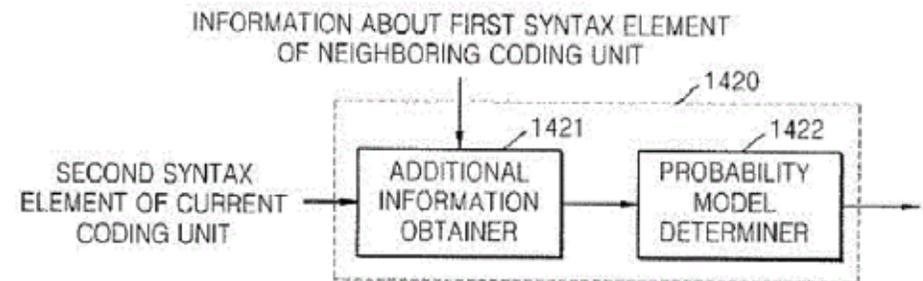


02 Video Decoding Method

Patent No: 2015/02922
Applicant: Samsung Electronics Co. Ltd.

Abstract

Disclosed are methods and apparatuses for video encoding and decoding. The video encoding method, according to the present invention, comprises: encoding a video on the basis of a hierarchical data unit; determining a context model to be used in entropy-encoding a syntax element of the data unit on the basis of at least one additional item of information of the data unit; and entropy-encoding the syntax element of the data unit using the determined context model.

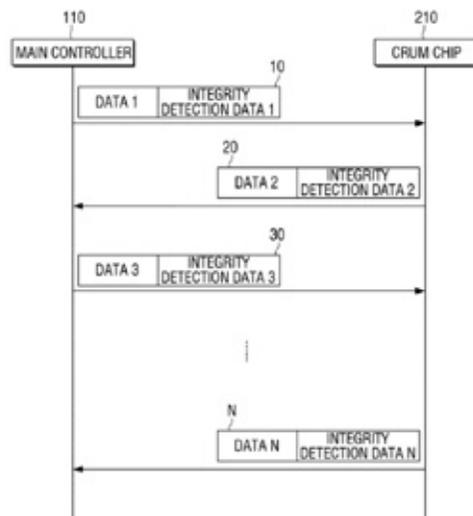


03 Crum Chip and Image Forming Device for Authentication and Communication, and Methods Thereof

Patent No: 2015/04713
Applicant: Samsung Electronics Co. Ltd.

Abstract

A Customer Replaceable Unit Monitoring (CRUM) chip, an image forming apparatus, and a method of authenticating are provided. The apparatus includes a main body that includes a main controller controlling operations of the apparatus, a consumable unit mounted on the main body to communicate with the main controller, and a CRUM chip that is provided in the consumable unit and stores information regarding the consumable unit. The main controller and the CRUM chip transmit and receive signals that include data and integrity detection data between each other. The integrity detection data is generated by accumulating and examining integrity detection data included in a previous signal.



04 Registration Method and System for Secure Online Banking

Patent No: 2015/01643
Applicant: Barclays Bank PLC

Abstract

In an exemplary embodiment, a method of registering online payment transaction details in an online banking system is described, the method comprising receiving data associated with an online payment transaction from a user, and storing data defining the online payment transaction after verifying the user's identity. In an initial mode of operation, the system enforces a restriction on the online transaction, and in a subsequent mode of operation, the system removes the restriction. A two-stage method of registering a user for access to an application on a mobile handset is also provided, whereby access is initially restricted until subsequent re-authentication of the user using a different channel.

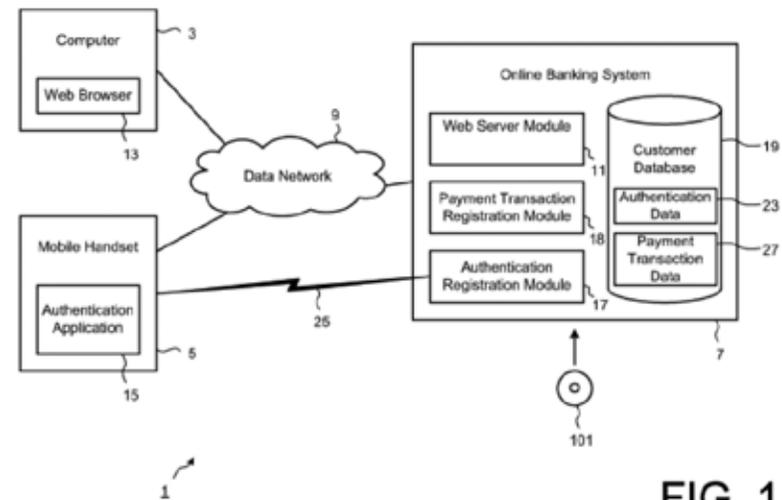


FIG. 1



05 Protocols for Enabling Mode 1 and Mode 2 Devices in TV White Space Networks

Patent No: 2013/02866
Applicant: Qualcomm Incorporated

Abstract

Certain aspects of the present disclosure provide techniques and apparatus for operating in a television white space (TVWS) network. One example method generally includes receiving, at an apparatus, a message with a field indicating a current version of an unused frequency spectrum map (e.g., a white space map [WSM]), the unused frequency spectrum map indicating channels usable for wireless communications; determining whether the current version of the unused frequency spectrum map is different than a previous version of the unused frequency spectrum map; and using a channel for wireless communications based on the determination. Another example method generally includes accessing a database of available channels for a current location of an apparatus via a neighboring portable or fixed enabling apparatus and enabling one or more portable dependent apparatuses for the wireless communications via one or more of the available channels.

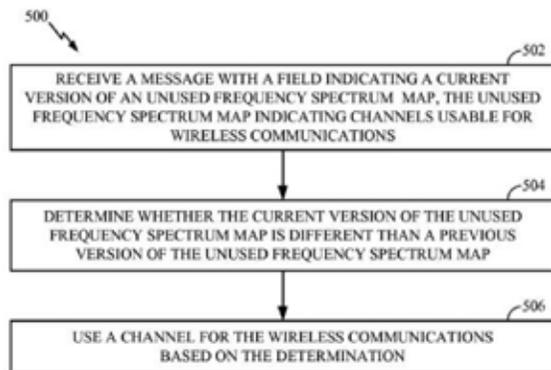


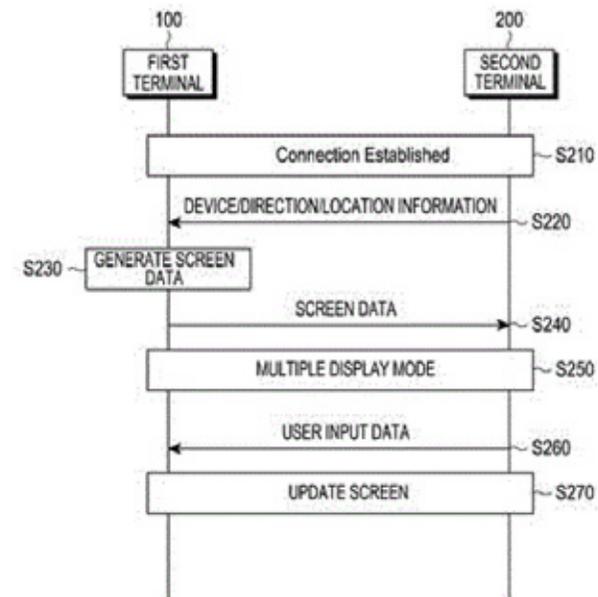
FIG. 5

06 Multiple display method with multiple communication terminals, machine-readable storage medium, and communication terminal

Patent No: 2014/08942
Applicant: Samsung Electronics Co., Ltd.

Abstract

A multiple display method to be performed by two or more communication terminals to expand visibility is provided. A first communication terminal establishes a wireless connection with a second communication terminal, receives device information of the second communication terminal, generates first screen data based on the device information for configuring a first screen of the first communication terminal and second screen data for configuring a second screen of the second communication terminal in association with the first screen. The second screen data is transmitted to the second communication terminal.



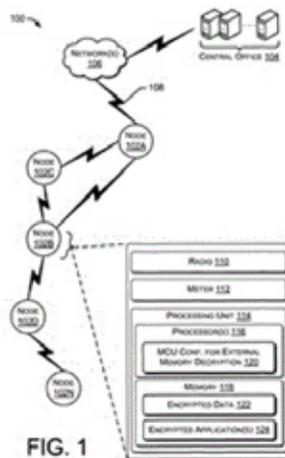
07 Microcontroller configured for external memory decryption

Patent No: 2014/07767

Applicant: Itron, Inc.

Abstract

In an advanced metering infrastructure environment, software program statements and/or data may be encrypted. A microcontroller unit may include a first cache configured to store a block of encrypted data obtained from an external memory device. A decryption engine may decrypt the block of encrypted data for storage in a second cache. An address alignment module may be configured to receive input from a program counter and to calculate an offset pointer. The offset pointer may indicate a particular word in the block of decrypted data within the second cache for transmission to an instruction register for use by an application program. An address generator may be configured to receive input from the address alignment module and to indicate a block of data in the external memory device to be loaded into the first cache, to thereby replacing the encrypted data sent to the decryption engine.



Meet Our Team

Our high tech team is made up of patent attorneys, foreign counsel, candidate patent attorneys and technical experts. The team has extensive technical expertise in electrical and electronic engineering, computer science, software and also industrial, mechanical and civil engineering.



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