SK Planet co., Ltd.

Initial Bidding Guidance: Low-to-Mid Seven Figures

With a 2007 priority date, the disclosed portfolio describes systems and methods for media players, Set-Top Boxes - including broadcasting chips, associated applications – Digital Televisions, and Blu-ray Disc Java ("BD-J"). This portfolio includes the following:

Abstract (US 8,311,516)
Disclosed is a system and a method for maintaining broadcasting chip information regardless of device replacement in a USIM unlock environment where broadcast information can be automatically modified in response to device replacement. The method includes: transmitting terminal information on the second terminal and subscriber information corresponding to the first USIM card to a mobile communication information management server; when the terminal information is different from terminal information corresponding to the subscriber information, determining that there has been device replacement, and then providing the terminal information and the subscriber information to a broadcast information management server, by the mobile communication information management server; transmitting a request for modification of broadcasting chip information from the mobile communication information management server to a Conditional Access System (CAS), and extracting, by the CAS, broadcast information on the first broadcasting chip based on the subscriber information in response to the request; generating EMM information based on the broadcast information on the first broadcasting chip, and providing the generated EMM information to the second terminal corresponding to the terminal information; and modifying the information on the second broadcasting chip of the second terminal to information of the first broadcasting chip.

Abstract (US 8,347,314)
A method for managing JAVA applications executable in a user device provides an expandability for and a continuity between JAVA applications by changing states of the JAVA applications in execution and sharing information between the JAVA applications.

Abstract (US 8,374,593)
A method of providing a mobile application is disclosed. In accordance with the method of the present invention, a transmission time and a loading time of the mobile application, and a limitation on a number and a size of the mobile application are minimized, and providing the personalized mobile application is possible.

Abstract (US 8,515,259; US 8,909,028)
A method for providing a progressive download service for a playback apparatus supporting a BD-J specification is disclosed. In accordance with the present invention, a standby time and a communication overhead necessary for receiving and playing a A/V data by a playback apparatus supporting a BD-J specification are minimized by dividing and playing a first clip and a second clip according to a size of clips. In accordance with the present invention, a playback information package generated according to a playback
sequence of a main digital content and an auxiliary digital content is used to facilitate a configuration of a playback apparatus supporting a BD-J specification.

**Abstract (US 8,528,035)**
A method of providing a digital TV application is disclosed. In accordance with the method of the present invention, a transmission time and a loading time of the digital TV application and a limitation on a number and a size of the digital TV application are minimized, providing a personalized digital TV application based on a receiver information or a user information is possible.

**Abstract (US 8,737,802)**
A method for providing a channel service is disclosed. In accordance with the present invention, a fixed information including a BUMF information, an SF information and a playlist information and a variable information including a clip information associated with a streaming data of a selected channel service are transmitted to a playback apparatus supporting a BD-J specification, thereby enabling a Blu-ray player incapable of playing the streaming data to provide viewers with the streaming data of the channel service.

**Abstract (US 8,805,960)**
A method for providing a data application in a media reproduction apparatus of an automobile is disclosed. In accordance with the method for providing the data application in the media reproduction apparatus of the automobile, an additional data application associated with a base data application is dynamically received according to a communication status and the additional data application is executed on a scene-by-scene basis.

**Abstract (US 8,893,002)**
A method for providing a data application of a disk media playback apparatus is disclosed. In accordance with the present invention, a time necessary for loading and executing a data application and a limit in a size of the application are minimized and a personalized data application is provided based on a disk media playback apparatus identification or a user identification information.

**Abstract (US 8,910,047)**
A device-specific and application-specific computing device, a playback device and a method for controlling the playback device using the computing device is disclosed. In accordance with the present invention, a user may control the playback device using a control information generated according to a device configuration information of the computing device in his/her possession.

**Abstract (US 8,978,082)**
A method of switching a digital TV application is disclosed. In accordance with the method of the present invention, a channel changing event corresponding to a changing of a channel is used to minimize a time required for providing the digital TV application suitable for a changed channel.
Abstract (US 8,990,879)
A method for providing a data application of a digital broadcasting is disclosed. In accordance with the present subject matter, a time necessary for receiving and executing the data application and a limit in a number of or a size of the data application are minimized and a personalized data application can be provided based on a receiver identification information or a viewer identification information.

Abstract (US 9,026,999)
The present invention relates to a media playback apparatus capable of testing a user application, and to a method for testing a user application using the same. According to the present invention, the media playback apparatus tests the user application which is generated by executing a developer application in a computing apparatus, wherein the computing apparatus is connected to the media playback apparatus through a network. Thus, applications stored in a plurality of computing apparatuses can be tested using a single media playback apparatus.

Abstract (US 9,032,469)
A media playback apparatus and a method for providing a multimedia content using the same are disclosed. In accordance with the apparatus and the method, a content reception information stored in a disk media is read and a connection to an external apparatus is established based on the content reception information to receive and provide the multimedia content.

Abstract (US 9,189,368)
The present invention relates to a system and method for testing a user application using a computing apparatus and a media playback apparatus. According to the present invention, the media playback apparatus tests the user application which is generated by executing a developer application in a computing apparatus, wherein the computing apparatus is connected to the media playback apparatus through a network. Thus, applications stored in a plurality of computing apparatuses can be tested using a single media playback apparatus.

Abstract (US 9,325,932)
A data application based on a reproduction apparatus of a disk media is disclosed. In accordance with method, a scene resource data corresponding to each scene of a data application based on a base data application of the disk media or the reproduction apparatus to execute the data application on a scene-by-scene basis, thereby minimizing a time required for the execution of the data application and a limit of a size of the data application, and providing the data application personalized based on a device information or a user information.

Abstract (US 9,326,040)
A data application providing server, a broadcasting server and a receiver for dynamically processing a data application and a digital broadcasting system including the same are disclosed wherein a data of a minimum quantity required for executing a data application is received and other data is received by a pull method to minimize a time required for receiving and executing the data application, and wherein a change in the data application
is facilitated, and a stability of the execution of the data application is maintained and an execution speed is improved through a tread management or a task management.

Abstract (US 9,378,208)
A content providing system based on a media playback apparatus capable of reading a content reception information stored in a storage media to provide a multimedia content to a user is disclosed. In accordance with the system, an advertisement or a promotion of a product is possible by distributing a storage media that holds a link to a content providing apparatus to consumers.

Abstract (US 9,398,431)
A method for running applications using a mobile device and a playback apparatus supporting a BD-J specification is disclosed. In accordance with the present invention, a function that cannot be provided by the playback apparatus supporting the BD-J specification is provided by the mobile device, thereby preventing the lack of resources and the rise of suppressing the manufacturing costs of the playback apparatus.

Earliest Priority Date: 2-14-2007

Representative Claims:  US 9,326,040 – Claim #1
1. A digital broadcasting system for dynamically processing a data application, the system comprising: a data application providing server for dynamically dividing the data application into minimum execution data and additional data, transmitting the minimum execution data to a broadcasting server, and transmitting the additional data to a receiver; the broadcasting server for receiving the minimum execution data from the data application providing server and relaying the minimum execution data to the receiver and carrying out a digital broadcast; and the receiver for receiving the minimum execution data from the broadcasting server, analyzing the minimum execution data, transmitting a transmission request for the additional data to the data application providing server, the transmission request being generated based on the analysis of the minimum execution data, and providing the data application including the additional data provided by the data application providing server according to the transmission request and the minimum execution data relayed by the broadcasting server.

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