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Knight et al.

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(54) **METHOD OF ENABLING DIGITAL MUSIC CONTENT TO BE DOWNLOADED TO AND USED ON A PORTABLE WIRELESS COMPUTING DEVICE**

(71) Applicant: **OMNIFONE LIMITED**, London (GB)

(72) Inventors: **Mark Stephen Knight**, London (GB);
Michael Ian Lamb, London (GB);
Robert John Lewis, London (GB);
Stephen William Pocock, Egham (GB);
Philip Anthony Sant, London (GB);
Mark Peter Sullivan, Birmingham (GB);
Christopher John Evans, London (GB)

(73) Assignee: **OMNIFONE LIMITED**, London (GB)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**

CPC **H04L 51/32** (2013.01); **G06Q 10/10** (2013.01); **G06Q 30/06** (2013.01); **H04L 67/04** (2013.01);

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(58) **Field of Classification Search**

CPC H04W 4/003; H04W 4/08; H04W 4/206;
H04W 8/205; H04W 12/08; H04L 67/04;
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USPC 709/225; 726/26
See application file for complete search history.

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Primary Examiner — Hadi Armouche

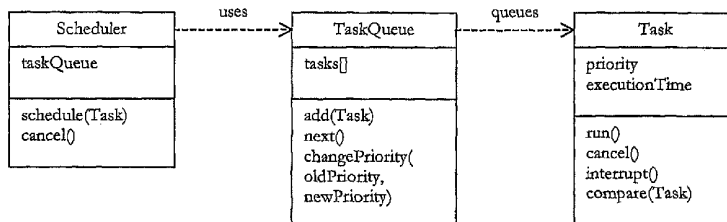
Assistant Examiner — Angela Holmes

(74) *Attorney, Agent, or Firm* — Saul Ewing LLP

(57) **ABSTRACT**

The invention enables digital music content to be downloaded to and used on a portable wireless computing device. An application running on the wireless device has been automatically adapted to parameters associated with the wireless device without end-user input (e.g. the application has been configured in dependence on the device OS and firmware, related bugs, screen size, pixel number, security models, connection handling, memory etc. This application enables an end-user to browse and search music content on a remote server using a wireless network; to download music content from that remote server using the wireless network and to playback and manage that downloaded music content. The application also includes a digital rights management system that enables unlimited legal downloads of different music tracks to the device and also enables any of those tracks stored on the device to be played so long as a subscription service has not terminated.

30 Claims, 73 Drawing Sheets



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| G06Q 10/10 (2012.01)
G06Q 30/06 (2012.01)
H04M 3/487 (2006.01)
H04M 1/725 (2006.01)
H04W 12/08 (2009.01)
H04L 29/08 (2006.01) | |

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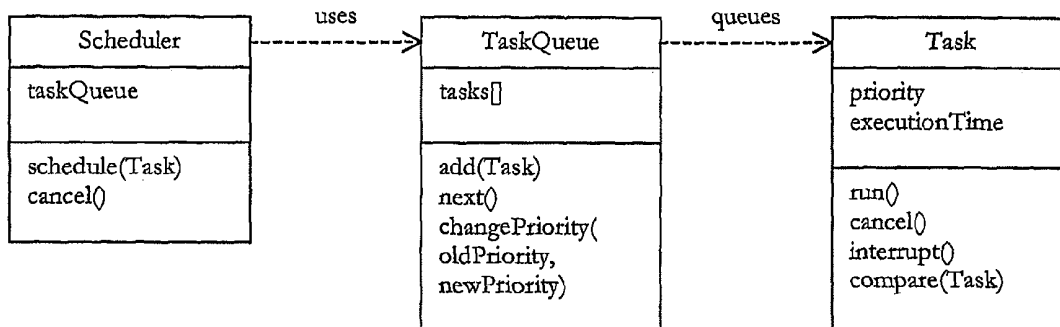


Figure 1

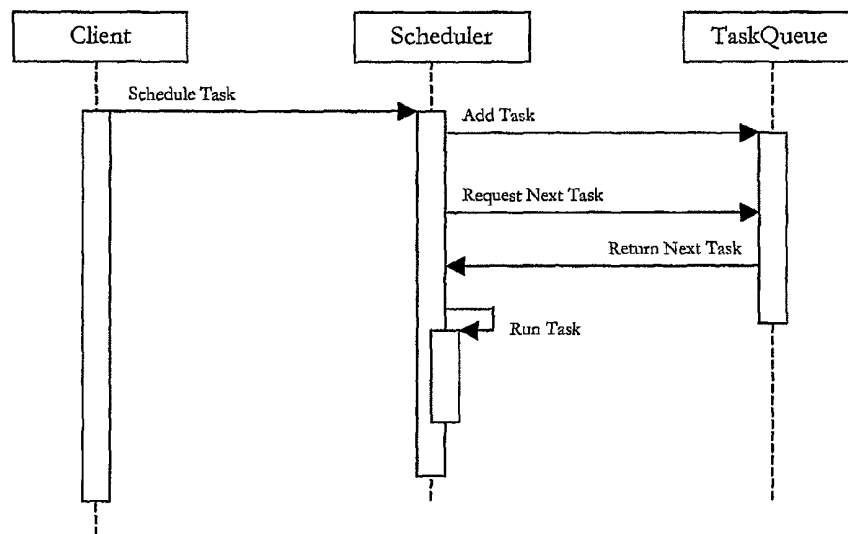


Figure 2

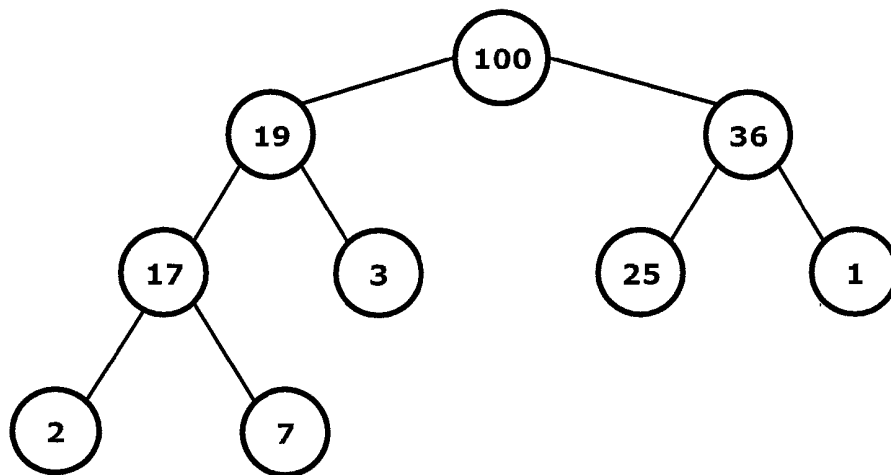


Figure 4

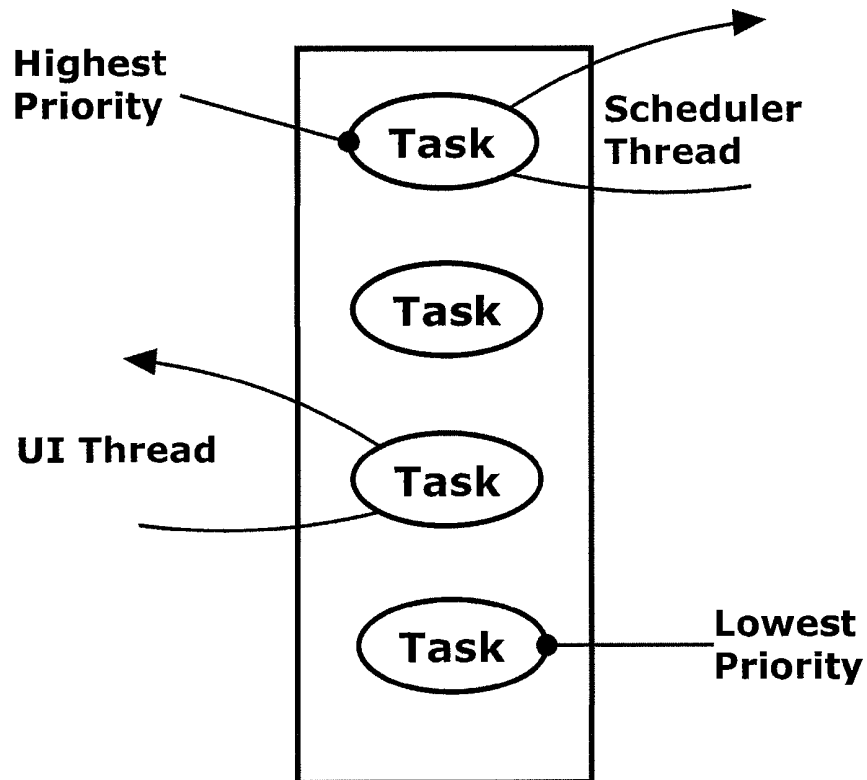


Figure 3

	Lower	Upper
Data	3.33%	6.67%
Image	3.33%	6.67%
Audio	10%	90%

Figure 7

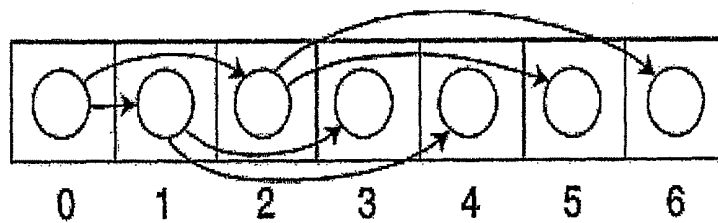


Figure 5

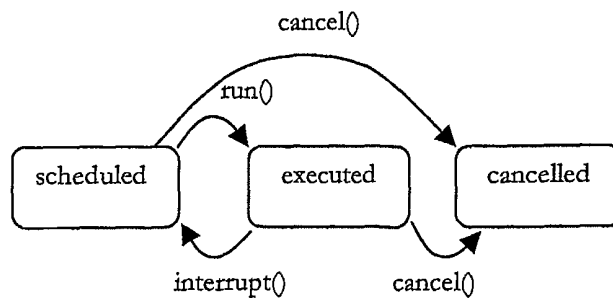


Figure 6

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