Claim Element Numbering for Claims 1-21 of U.S. Patent No. 8,924,506 B2

Claim Element No.	Claim Language
1.Preamble	A method of retrieving large-scale images over network communications channels for display on a limited communication bandwidth computer device, said method comprising:
1.A	issuing, from a limited communication bandwidth computer device to a remote computer, a request for an update data parcel
1.B	wherein the update data parcel is selected based on an operator controlled image viewpoint on the computer device relative to a predetermined image and
1.C	the update data parcel contains data that is used to generate a display on the limited communication bandwidth computer device;
1.D	processing, on the remote computer, source image data to obtain a series $K_{1\text{-}N}$ of derivative images of progressively lower image resolution and
1.E	wherein series image K_0 being subdivided into a regular array
1.F	wherein each resulting image parcel of the array has a predetermined pixel resolution
1.G	wherein image data has a color or bit per pixel depth representing a data parcel size of a predetermined number of bytes,
1.H	resolution of the series $K_{1\text{-}N}$ of derivative images being related to that of the source image data or predecessor image in the series by a factor of two, and
1.I	said array subdivision being related by a factor of two
1.J	such that each image parcel being of a fixed byte size;
1.K	receiving said update data parcel from the data parcel stored in the remote computer over a communications channel; and
1.L	displaying on the limited communication bandwidth computer device using the update data parcel that is a part of said predetermined image, an image wherein said update data parcel

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	uniquely forms a discrete portion of said predetermined image.
2.	The method of claim 1, wherein processing the source image data further comprises one of pre-processing the source image data on the remote computer and processing the source image data in real-time on-demand based on the request for the updated image parcel.
3.	The method of claim 2, wherein receiving the update data parcel over a communications channel further comprises streaming the update data parcel over a communications channel to the limited communication bandwidth computer device.
4.	The method of claim 1, wherein the limited communication bandwidth computer device further comprises one of a mobile computer system, a cellular computer system, an embedded computer system, a handheld computer system, a personal digital assistants and an internet-capable digital phone and a television.
5.	The method of claim 1, wherein a size of the data parcel on the remote computer is different from the update data parcel on the limited communication bandwidth computer device.
6.	The method of claim 1, wherein processing the source image data further comprises queuing the update data parcels on the remote computer based on an importance of the update data parcel as determined by the remote computer.
7.A	The method of claim 1, wherein the processing further comprises compressing each data parcel and

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7.B	storing each data parcel on the remote computer in a file of defined configuration such that a data parcel can be located by specification of a K_D, X, Y value that represents the data set resolution index D and corresponding image array coordinate.
8.Preamble	A display system for displaying a large-scale image retrieved over a limited bandwidth communications channel, said display system comprising:
8.A	a display of defined screen resolution for displaying a defined image;
8.B	a memory providing for the storage of a plurality of image parcels
8.C	displayable over respective portions of a mesh corresponding to said defined image;
8.D	a communications channel interface supporting the retrieval of a defined data parcel over a limited bandwidth communications channel;
8.E	a processor coupled between said display, memory and communications channel interface,
8.F	said processor operative to select said defined data parcel,
8.G	retrieve said defined data parcel via said limited bandwidth communications channel interface for storage in said memory, and
8.H	render said defined data parcel over a discrete portion of said mesh to provide for a progressive resolution enhancement of said defined image on said display; and
8.I	a remote computer, coupled to the limited bandwidth communications channel, that delivers the defined data parcel
8.J	wherein delivering the defined data parcel further comprises processing source image data to obtain a series $K_{1\text{-}N}$ of derivative images of progressively lower image resolution and

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8.K	wherein series image K_0 being subdivided into a regular array
8.L	wherein each resulting image parcel of the array has a predetermined pixel resolution
8.M	wherein image data has a color or bit per pixel depth representing a data parcel size of a predetermined number of bytes,
8.N	resolution of the series K_{1-N} of derivative images being related to that of the source image data or predecessor image in the series by a factor of two, and
8.O	said array subdivision being related by a factor of two
8.P	such that each image parcel being of a fixed byte size.
9.	The display system of claim 8, wherein processing the source image data further comprises one of pre-processing the source image data on the remote computer and processing the source image data in real-time on-demand based on the request for the updated image parcel.
10.	The display system of claim 9, wherein receiving the update data parcel over a communications channel further comprises streaming the update data parcel over a communications channel to the limited communication bandwidth computer device.
11.	The display system of claim 8, wherein the limited communication bandwidth computer device further comprises one of a mobile computer system, a cellular computer system, an embedded computer system, a handheld computer system, a personal digital assistants and an internet-capable digital phone and a television.
12.	The display system of claim 8, wherein a size of the data parcel on

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	the remote computer is different from the update data parcel on the limited communication bandwidth computer device.
13.	The display system of claim 8, wherein processing the source image data further comprises queuing the update data parcels on the remote computer based on an importance of the update data parcel as determined by the remote computer.
14.A	The display system of claim 8, wherein the processing may further comprises compressing each data parcel and
14.B	storing each data parcel on the remote computer in a file of defined configuration such that a data parcel can be located by specification of a K_D, X, Y value that represents the data set resolution index D and corresponding image array coordinate.
15.Preamble	A remote computer for delivering large-scale images over network communications channels for display on a limited communication bandwidth computer device that has a display system for displaying a large-scale image retrieved over a limited bandwidth communications channel,
15.A	a display of defined screen resolution for displaying a defined image,
15.B	a memory providing for the storage of a plurality of image parcels
15.C	displayable over respective portions of a mesh corresponding to said defined image,
15.D	a communications channel interface supporting the retrieval of a defined data parcel over a limited bandwidth communications channel and
15.E	a processor coupled between said display, memory and communications channel interface,

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