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Acknowledgement of receipt

We hereby acknowledge receipt of the following subsequently filed document(s):

Submission number	7379742
Application number	EP05703078.5
Date of receipt	12 April 2019
Receiving Office	European Patent Office, The Hague
Your reference	01110EP HG R115
Applicant	All applicants as on file

Documents submitted		
	package-data.xml	ep-sfd-request.xml
	epf1038.pdf (1 p.)	ORAL-1.pdf\01110EP-response-to-Comm-purs-Rule-115-1.pdf (3 p.)
	CLMS-1.pdf\01110EP-Amended Claims Main RQ clean.pdf (6 p.)	CLMS-HWA-1.pdf\01110EP-Amended Claims Main RQ marked.pdf (6 p.)
	CLMS-2.pdf\01110EP-Amended Claims Aux RQ clean.pdf (6 p.)	CLMS-HWA-2.pdf\01110EP-Amended Claims Aux RQ marked.pdf (6 p.)

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Letter accompanying subsequently filed items

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The document(s) listed below is (are) subsequently filed documents pertaining to the following application:

Application number	05703078.5
Applicant's or representative's reference	01110EP HG R115

	Description of document	Original file name	Assigned file name
1	Letter dealing with Oral proceedings	01110EP-response-to-Comm-purs-Rule -115-1.pdf	ORAL-1.pdf
2	Amended claims (clean copy)	01110EP-Amended Claims Main RQ clean.pdf	CLMS-1.pdf
3	Amended claims with annotations	01110EP-Amended Claims Main RQ marked.pdf	CLMS-HWA-1.pdf
4	Amended claims (clean copy)	01110EP-Amended Claims Aux RQ clean.pdf	CLMS-2.pdf
5	Amended claims with annotations	01110EP-Amended Claims Aux RQ marked.pdf	CLMS-HWA-2.pdf

	Payment	
1	Method of payment	Not specified

Signatures

Place:	**Budapest**
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Signed by:	**/HARANGOZÓ Gábor/**
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Date:	Budapest, April 12, 2019
Our ref.:	01110EP-8440A HG/NZ
Re.:	European patent application No. 05703078.5 corresponding to international patent application No. PCT/IL2005/000035
Applicant:	TVNGO LTD.
Title:	Method and apparatus for facilitating toggling between Internet and TV Broadcast

Dear Sirs,

This is in response to the Summons to attend oral proceedings pursuant to Rule 115(1) EPC dated December 19, 2018.

I. Main request

As a Main request, an amended set of claims is submitted herewith.

Claim 1 is amended in line with the proposal of the Examining Division.

Furthermore, the reference numbers 41 and 45 are added for the terms “first display window” and the “second video display window”, respectively.

In claim 3, the term “first display screen” is replaced with “first display window (41)”.

In claim 5, the term “an overlay” is replaced with “the combined video signal”.

In claim 6, the term “criterion is” is replaced with “criteria are”.

Claim 11 is brought into conformity with amended claim 1.

Claim 13 is amended by removing the features “command input” and “frame adjuster”, and rewording the claim with functional specification using the term “configured to”. Additionally, the term “user” is replaced with “remote control unit (30)”. It has a basis in Figure 6 and in lines 19-22 on page 11 of the description:

Fig. 6 is a block diagram showing the functionality of a remote control unit 30 for interfacing with the TV-Internet Integration Box 16 shown in Fig. 5. The remote control unit 30 includes a processing unit 31 coupled to a user interface 32, typically having a keypad or pushbuttons for program selection and setting as well as other functions.

Furthermore, the term "first display screen" is replaced with "first display window (41)".

In claim 14, the term "criterion is" is replaced with "criteria are".

In claims 17 and 18, the term "criterion includes" is replaced with "criteria include". Furthermore, the term "user command information" is deleted as it has no unambiguous support in the specification.

The remaining claims are unchanged.

In view of the recent examination report of the Examining Division, the amended claims of the Main Request meet the requirements of Art. 84 EPC and Art. 123(2) EPC.

A marked version of the amended set of claims of the Main request is enclosed herewith.

II. Auxiliary request

As an Auxiliary request a set of further amended claims is submitted herewith.

The claims of the Auxiliary request correspond to those of the Main request with the exception that claim 13 is deleted, and the subsequent claims 14 to 18 are re-numbered to claims 13 to 17.

In view of the recent examination report of the Examining Division, the amended claims of the Auxiliary Request also meet the requirements of Art. 84 EPC and Art. 123(2) EPC.

A marked version of the amended set of claims of the Auxiliary request is enclosed herewith.

III. Novelty and inventive step

In our reply of May 24, 2012 to the communication of the Examining Division, we submitted detailed arguments for novelty and inventive step of the present invention in view of the cited prior art. As these arguments have not been refuted by the Examining Division in its recent report (attached to the Summons), it is believed that the present invention meets the requirements of Art. 54 EPC (novelty) and Art. 56 EPC (inventive step).

IV. Request for videoconference

It is hereby respectfully requested that the oral proceedings be held by videoconference (using IP technology).

It is considered that the subject matter and complexity of the case are suitable for a videoconference.

Yours faithfully,

DANUBIA
Patent & Law Office LLC

Gábor HARANGOZÓ
Patent Attorney

Encl.:
amended set of claims of the Main request – clean
amended set of claims of the Main request – marked
amended set of claims of the Auxiliary request – clean
amended set of claims of the Auxiliary request – marked

Amended claims

(Main request)

1. A method for generating at a user's premises a combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the method comprising:

(a) providing a combiner unit (23) at the user's premises, wherein:

the combiner unit (23) is connected to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) at the user's premises for conveying the combined video signal to a TV set, and

the combiner unit (23) is connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

overlay trigger criteria including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

the method further comprises:

(b) processing at the user's premises said overlay display information and generating at the user's premises a corresponding combined video signal upon detecting that said overlay trigger criteria are met, wherein generating the combined video signal includes:

generating at the user's premises a first display window (41) including at least a first portion corresponding to said TV broadcast signals and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data, and

associating the Web link with said second portion of the first display window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display window (45) including at least a portion which corresponds to said internet content, and

providing the second video display window (45) within the first display window (41) as output.

2. The method according to claim 1, wherein said overlay display information is received at the user premises according to a pre-stored user profile.

3. The method according to any one of claims 1 to 2, further including:

receiving a command from a user at said user premises; and

responsive to said command, resizing said first portion and/or said second portion of said first display window (41).

4. The method according to any one of claim 1 to 3, further including: identifying a website address of the program broadcast by the Internet associated with the second data; and pre-fetching and buffering the program broadcast by the Internet from said website; thereby allowing said program to be displayed substantially without delay upon redirection by the user.

5. The method according to any one of the preceding claims, wherein the overlay display information comprises data representative of one or more second images and for each of

said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein said generating the combined video signal further includes within said first display said one or more second images.

6. The method according to claim 5, further including: periodically accessing a web server (14) for downloading said second data; extracting from the second data the second images and the respective web site corresponding to each of said second images; retrieving and storing digital content from said internet content; and

if the overlay trigger criteria are met and a user command that is associated with an image from amongst said one or more second images is identified, displaying the respective image from amongst the second images, accessing the respective web site associated with the displayed image and extracting and buffering content from the internet (15).

7. The method according to any one of claims 1 to 6, wherein the overlay display information is supplementary or complementary to the first data.

8. The method according to any one of claims 1 to 7, wherein the overlay display information includes an icon that indicates to the user that Internet content is currently being displayed and which provides an indication of a nature of said content.

9. The method according to claim 8, including selecting specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

10. The method according to any one of claims 1 to 7, wherein said overlay display information contains textual information advising the user to press a particular button on the remote control unit (30).

11. A TV-Internet Integration Box (16) for generating at a user's premises a combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the TV-Internet Integration Box comprising:

a combiner unit (23) at a user's premises coupled to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) for conveying the combined video signal to a TV set, wherein

the combiner unit (23) is connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

overlay trigger criteria including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

wherein said combiner unit (23) is configured to process at the user's premises said overlay display information and to generate at the user's premises a corresponding combined video signal upon detecting that said criteria are met, wherein said combiner unit (23) is further configured, when generating the combined video signal, to:

generate at the user's premises a first display window (41) including at least a first portion corresponding to said TV broadcast signal and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data or program details, and

associate the Web link with said second portion of the first display window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display window (45) including at least a portion which corresponds to said internet content, and

provide the second video display window (45) as output.

12. The TV-Internet Integration Box according to claim 11, wherein said overlay display information is received at the user premises according to a pre-stored user-profile.

13. The TV-Internet Integration Box according to claim 11 or 12, further configured to receive a command from a remote control unit (30) at said user premises; and to resize said first portion and/or said second portion of said first display window (41) in response to said command.

14. The TV-Internet Integration Box according to any one of claims 11 to 13, wherein the overlay display information comprises data representative of one or more second images, and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein the combiner unit (23) is configured to:

periodically access a web server (14) for downloading said overlay display information;

extract from the overlay display information said one or more second images and the respective web sites corresponding to each of said second images;

retrieve and store internet content from said web sites; and

if the overlay trigger criteria are met, and a user command that is associated with an image from amongst said one or more second images is identified, display the respective image from amongst the second images, access the respective web site associated with the displayed image and extract and buffer content from the website.

15. The TV-Internet Integration Box according to any one of claims 11 to 14, wherein the overlay display information includes an icon that indicates to the user that digital data from Internet content is currently being displayed and which provides an indication of a nature of said Internet content.

16. The TV-Internet Integration Box according to any one of claims 11 to 15, wherein the icon is colored so as to allow user selection of a specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

17. The TV-Internet Integration Box according to any one of claims 11 to 15, wherein said overlay trigger criteria include at least one of the following: a timing information, data specifying one or more TV subscriber channels.

18. The method according to claim 1, wherein said overlay trigger criteria include at least one of the following: a timing information, data specifying one or more TV subscriber channels.

Amended claims

(Main request)

1. A method for generating at a user's premises a combined video signal ~~a video output (24)~~ consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the method comprising:

(a) providing a combiner unit (23) at the user's premises, wherein:

the combiner unit (23) is connected to a first input (21) for receiving said first data,

the combiner unit is connected to ~~said~~ a video output (24) at the user's premises for conveying the combined video signal to a TV set, and

the combiner unit (23) is ~~also~~ connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

~~said TV broadcast signal and overlay display information originate from unrelated sources and are transmitted to the user's premises by different resources as mutually distinct and independent first and second inputs (21, 22), respectively, and wherein~~

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

~~an~~ overlay trigger criteria~~on~~ including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and the method further comprises:

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(b) processing at the user's premises said overlay display information and generating at the user's premises a corresponding ~~overlay~~ combined video signal~~only if~~ upon detecting that said ~~criterion~~overlay trigger criteria are ~~related to overlay trigger is~~ met, wherein generating ~~an overlay~~ the combined video signal includes:

generating at the user's premises a first display ~~screen~~ window (41) including at least a first portion corresponding to said TV broadcast signals and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data, and

associating the Web link with said second portion of the first display ~~screen~~ window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display ~~screen~~ window (45) including at least a portion which corresponds to said internet content, and

providing the second video display ~~screen~~ window (45) within the first display window (41) as output.

2. The method according to claim 1, wherein said overlay display information is received at the user premises according to a pre-stored user profile.

3. The method according to any one of claims 1 to 2, further including:

receiving a command from a user at said user premises; and

responsive to said command, resizing said first portion and/or said second portion of said first display ~~screen~~window (41).

4. The method according to any one of claim 1 to 3, further including: identifying a website address of the program broadcast by the Internet associated with the second data; and pre-fetching and buffering the program broadcast by the Internet from said website; thereby

allowing said program to be displayed substantially without delay upon redirection by the user.

5. The method according to any one of the preceding claims, wherein the overlay display information comprises data representative of one or more second images and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein said generating the combined video signal~~an overlay~~ further includes within said first display said one or more second images.

6. The method according to claim 5, further including: periodically accessing a web server (14) for downloading said second data; extracting from the second data the second images and the respective web site corresponding to each of said second images; retrieving and storing digital content from said internet content; and

if the overlay trigger criteria~~on is~~ are met and a user command that is associated with an image from amongst said one or more second images is identified, displaying the respective image from amongst the second images, accessing the respective web site associated with the displayed image and extracting and buffering content from the internet (15).

7. The method according to any one of claims 1 to 6, wherein the overlay display information is supplementary or complementary to the first data.

8. The method according to any one of claims 1 to 7, wherein the overlay display information includes an icon that indicates to the user that Internet content is currently being displayed and which provides an indication of a nature of said content.

9. The method according to claim 8, including selecting specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

10. The method according to any one of claims 1 to 7, wherein said overlay display information contains textual information advising the user to press a particular button on the remote control unit (30).

11. A TV-Internet Integration Box (16) for generating at a user's premises a ~~video output~~combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the TV-Internet Integration Box comprising:

a combiner unit (23) at a user's premises coupled to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) for conveying the combined video signal to a TV set, wherein

the combiner unit (23) is ~~also~~ connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

~~said TV broadcast signals and overlay display information originate from unrelated sources and are transmitted to the user's premises by different resources as mutually distinct and independent first and second inputs (21, 22), respectively, and wherein~~

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data ~~(or program details)~~ indicative of the content associated with said overlay display information, and

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~~an~~ overlay trigger criteria~~on~~ including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

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wherein said combiner unit (23) is configured to process at the user's premises said overlay display information and to generate at the user's premises a corresponding combined video signal ~~overlay only if~~ upon detecting that said criteria~~on related to overlay trigger is~~ are met, wherein said combiner unit (23) is further configured, when generating the combined video signal, to~~generating an overlay includes~~:

generate~~ing~~ at the user's premises a first display ~~screen~~ window (41) including at least a first portion corresponding to said TV broadcast signal and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data or program details, and

associate~~ing~~ the Web link with said second portion of the first display ~~screen~~ window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display ~~screen~~ window (45) including at least a portion which corresponds to said internet content, and

provide~~ing~~ the second video display ~~screen~~ window (45) as output.

12. The TV-Internet Integration Box according to claim 11, wherein said overlay display information is received at the user premises according to a pre-stored user-profile.

13. The TV-Internet Integration Box according to claim 11 or 12, further configured to~~including; a command input for~~ receive~~ing~~ a command from a ~~user~~ remote control unit (30) at said user premises; and ~~a frame adjuster for~~to resize~~ing~~ said first portion and/or said second portion of said first display ~~screen~~ window (41) in response to said command.

14. The TV-Internet Integration Box according to any one of claims 11 to 13, wherein the overlay display information comprises data representative of one or more second images,

and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein the combiner unit (23) is configured to:

periodically access a web server (14) for downloading said overlay display information;

extract from the overlay display information said one or more second images and the respective web sites corresponding to each of said second images;

retrieve and store internet content from said web sites; and

if the overlay trigger criteria~~on is~~ are met, and a user command that is associated with an image from amongst said one or more second images is identified, display the respective image from amongst the second images, access the respective web site associated with the displayed image and extract and buffer content from the website.

15. The TV-Internet Integration Box according to any one of claims 11 to 14, wherein the overlay display information includes an icon that indicates to the user that digital data from Internet content is currently being displayed and which provides an indication of a nature of said Internet content.

16. The TV-Internet Integration Box according to any one of claims 11 to 15, wherein the icon is colored so as to allow user selection of a specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

17. The TV-Internet Integration Box according to any one of claims 11 to 15, wherein said overlay trigger criteria~~on~~ include~~s~~ at least one of the following: a timing information, data specifying one or more TV subscriber channels~~, a user command information~~.

18. The method according to claim 1, wherein said overlay trigger criteria~~on~~ include~~s~~ at least one of the following: a timing information, data specifying one or more TV subscriber channels~~, a user command information~~.

Amended claims

(Auxiliary request)

1. A method for generating at a user's premises a combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the method comprising:

(a) providing a combiner unit (23) at the user's premises, wherein:

the combiner unit (23) is connected to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) at the user's premises for conveying the combined video signal to a TV set, and

the combiner unit (23) is connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

overlay trigger criteria including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

the method further comprises:

(b) processing at the user's premises said overlay display information and generating at the user's premises a corresponding combined video signal upon detecting that said overlay trigger criteria are met, wherein generating the combined video signal includes:

generating at the user's premises a first display window (41) including at least a first portion corresponding to said TV broadcast signals and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data, and

associating the Web link with said second portion of the first display window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display window (45) including at least a portion which corresponds to said internet content, and

providing the second video display window (45) within the first display window (41) as output.

2. The method according to claim 1, wherein said overlay display information is received at the user premises according to a pre-stored user profile.

3. The method according to any one of claims 1 to 2, further including:

receiving a command from a user at said user premises; and

responsive to said command, resizing said first portion and/or said second portion of said first display window (41).

4. The method according to any one of claim 1 to 3, further including: identifying a website address of the program broadcast by the Internet associated with the second data; and pre-fetching and buffering the program broadcast by the Internet from said website; thereby allowing said program to be displayed substantially without delay upon redirection by the user.

5. The method according to any one of the preceding claims, wherein the overlay display information comprises data representative of one or more second images and for each of

said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein said generating the combined video signal further includes within said first display said one or more second images.

6. The method according to claim 5, further including: periodically accessing a web server (14) for downloading said second data; extracting from the second data the second images and the respective web site corresponding to each of said second images; retrieving and storing digital content from said internet content; and

if the overlay trigger criteria are met and a user command that is associated with an image from amongst said one or more second images is identified, displaying the respective image from amongst the second images, accessing the respective web site associated with the displayed image and extracting and buffering content from the internet (15).

7. The method according to any one of claims 1 to 6, wherein the overlay display information is supplementary or complementary to the first data.

8. The method according to any one of claims 1 to 7, wherein the overlay display information includes an icon that indicates to the user that Internet content is currently being displayed and which provides an indication of a nature of said content.

9. The method according to claim 8, including selecting specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

10. The method according to any one of claims 1 to 7, wherein said overlay display information contains textual information advising the user to press a particular button on the remote control unit (30).

11. A TV-Internet Integration Box (16) for generating at a user's premises a combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the TV-Internet Integration Box comprising:

a combiner unit (23) at a user's premises coupled to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) for conveying the combined video signal to a TV set, wherein

the combiner unit (23) is connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

overlay trigger criteria including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

wherein said combiner unit (23) is configured to process at the user's premises said overlay display information and to generate at the user's premises a corresponding combined video signal upon detecting that said criteria are met, wherein said combiner unit (23) is further configured, when generating the combined video signal, to:

generate at the user's premises a first display window (41) including at least a first portion corresponding to said TV broadcast signal and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data or program details, and

associate the Web link with said second portion of the first display window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display window (45) including at least a portion which corresponds to said internet content, and

provide the second video display window (45) as output.

12. The TV-Internet Integration Box according to claim 11, wherein said overlay display information is received at the user premises according to a pre-stored user-profile.

13. The TV-Internet Integration Box according to any one of claims 11 to 12, wherein the overlay display information comprises data representative of one or more second images, and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein the combiner unit (23) is configured to:

periodically access a web server (14) for downloading said overlay display information;

extract from the overlay display information said one or more second images and the respective web sites corresponding to each of said second images;

retrieve and store internet content from said web sites; and

if the overlay trigger criteria are met, and a user command that is associated with an image from amongst said one or more second images is identified, display the respective image from amongst the second images, access the respective web site associated with the displayed image and extract and buffer content from the website.

14. The TV-Internet Integration Box according to any one of claims 11 to 13, wherein the overlay display information includes an icon that indicates to the user that digital data from Internet content is currently being displayed and which provides an indication of a nature of said Internet content.

15. The TV-Internet Integration Box according to any one of claims 11 to 14, wherein the icon is colored so as to allow user selection of a specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

16. The TV-Internet Integration Box according to any one of claims 11 to 14, wherein said overlay trigger criteria include at least one of the following: a timing information, data specifying one or more TV subscriber channels.

17. The method according to claim 1, wherein said overlay trigger criteria include at least one of the following: a timing information, data specifying one or more TV subscriber channels.

Amended claims

(Auxiliary request)

1. A method for generating at a user's premises a combined video signal ~~a video output (24)~~ consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the method comprising:

(a) providing a combiner unit (23) at the user's premises, wherein:

the combiner unit (23) is connected to a first input (21) for receiving said first data,

the combiner unit is connected to ~~said~~ a video output (24) at the user's premises for conveying the combined video signal to a TV set, and

the combiner unit (23) is ~~also~~ connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

~~said TV broadcast signal and overlay display information originate from unrelated sources and are transmitted to the user's premises by different resources as mutually distinct and independent first and second inputs (21, 22), respectively, and wherein~~

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data indicative of the content associated with said overlay display information, and

~~an~~ overlay trigger criteria~~on~~ including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and the method further comprises:

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(b) processing at the user's premises said overlay display information and generating at the user's premises a corresponding ~~overlay~~ combined video signal~~only if~~ upon detecting that said ~~criterion~~overlay trigger criteria are ~~related to overlay trigger is~~ met, wherein generating ~~an overlay~~ the combined video signal includes:

generating at the user's premises a first display ~~screen~~ window (41) including at least a first portion corresponding to said TV broadcast signals and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data, and

associating the Web link with said second portion of the first display ~~screen~~ window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display ~~screen~~ window (45) including at least a portion which corresponds to said internet content, and

providing the second video display ~~screen~~ window (45) within the first display window (41) as output.

2. The method according to claim 1, wherein said overlay display information is received at the user premises according to a pre-stored user profile.

3. The method according to any one of claims 1 to 2, further including:

receiving a command from a user at said user premises; and

responsive to said command, resizing said first portion and/or said second portion of said first display ~~screen~~window (41).

4. The method according to any one of claim 1 to 3, further including: identifying a website address of the program broadcast by the Internet associated with the second data; and pre-fetching and buffering the program broadcast by the Internet from said website; thereby

allowing said program to be displayed substantially without delay upon redirection by the user.

5. The method according to any one of the preceding claims, wherein the overlay display information comprises data representative of one or more second images and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein said generating the combined video signal~~an overlay~~ further includes within said first display said one or more second images.

6. The method according to claim 5, further including: periodically accessing a web server (14) for downloading said second data; extracting from the second data the second images and the respective web site corresponding to each of said second images; retrieving and storing digital content from said internet content; and

if the overlay trigger criteria~~on is~~ are met and a user command that is associated with an image from amongst said one or more second images is identified, displaying the respective image from amongst the second images, accessing the respective web site associated with the displayed image and extracting and buffering content from the internet (15).

7. The method according to any one of claims 1 to 6, wherein the overlay display information is supplementary or complementary to the first data.

8. The method according to any one of claims 1 to 7, wherein the overlay display information includes an icon that indicates to the user that Internet content is currently being displayed and which provides an indication of a nature of said content.

9. The method according to claim 8, including selecting specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

10. The method according to any one of claims 1 to 7, wherein said overlay display information contains textual information advising the user to press a particular button on the remote control unit (30).

11. A TV-Internet Integration Box (16) for generating at a user's premises a ~~video output~~combined video signal consisting of a TV broadcast signal constituting a first data and overlay display information constituting a second data, the TV-Internet Integration Box comprising:

a combiner unit (23) at a user's premises coupled to a first input (21) for receiving said first data,

the combiner unit is connected to a video output (24) for conveying the combined video signal to a TV set, wherein

the combiner unit (23) is ~~also~~ connected to a second input (22) for receiving said second data from an Internet data source providing said overlay display information over the Internet (15),

characterized in that:

the combiner unit (23) is connected to a processor unit (25) which automatically accesses the Internet data source for downloading said second data which are then stored in a memory (26);

~~said TV broadcast signals and overlay display information originate from unrelated sources and are transmitted to the user's premises by different resources as mutually distinct and independent first and second inputs (21, 22), respectively, and wherein~~

said overlay display information includes at least:

a Web link indicating a website where an internet content that is associated with said overlay display information is stored,

an icon and/or textual data ~~(or program details)~~ indicative of the content associated with said overlay display information, and

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~~an~~ overlay trigger criteria~~on~~ including at least a channel information and a time information defining on which channel or channels of said TV broadcast signal the associated Internet connect is to be streamed and at what times; and

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wherein said combiner unit (23) is configured to process at the user's premises said overlay display information and to generate at the user's premises a corresponding combined video signal ~~overlay only if~~ upon detecting that said criteria~~on related to overlay trigger is~~ are met, wherein said combiner unit (23) is further configured, when generating the combined video signal, to~~generating an overlay includes~~:

generate~~ing~~ at the user's premises a first display ~~screen~~ window (41) including at least a first portion corresponding to said TV broadcast signal and a second portion overlaid over said first portion and corresponding at least to said icon and/or textual data or program details, and

associate~~ing~~ the Web link with said second portion of the first display ~~screen~~ window (41) thereby allowing a user to cause the combiner unit (23) to retrieve said internet content, generate a second video display ~~screen~~ window (45) including at least a portion which corresponds to said internet content, and

provide~~ing~~ the second video display ~~screen~~ window (45) as output.

12. The TV-Internet Integration Box according to claim 11, wherein said overlay display information is received at the user premises according to a pre-stored user-profile.

~~13. The TV-Internet Integration Box according to claim 11 or 12, further configured to~~including; ~~a command input for receiving a command from a user remote control unit (30) at said user premises; and a frame adjuster for~~to ~~resizing said first portion and/or said second portion of said first display screen window (41) in response to said command.~~

~~14~~13. The TV-Internet Integration Box according to any one of claims 11 to ~~13~~12, wherein the overlay display information comprises data representative of one or more second images,

and for each of said one or more second images said overlay display information comprises respective web site addresses where IP content associated with the respective second image is stored, and wherein the combiner unit (23) is configured to:

periodically access a web server (14) for downloading said overlay display information;

extract from the overlay display information said one or more second images and the respective web sites corresponding to each of said second images;

retrieve and store internet content from said web sites; and

if the overlay trigger criteria~~on is~~ are met, and a user command that is associated with an image from amongst said one or more second images is identified, display the respective image from amongst the second images, access the respective web site associated with the displayed image and extract and buffer content from the website.

~~15~~14. The TV-Internet Integration Box according to any one of claims 11 to ~~14~~13, wherein the overlay display information includes an icon that indicates to the user that digital data from Internet content is currently being displayed and which provides an indication of a nature of said Internet content.

~~16~~15. The TV-Internet Integration Box according to any one of claims 11 to ~~15~~14, wherein the icon is colored so as to allow user selection of a specific Internet content by pressing a color-coded button on a remote control unit (30) in accordance with a color of said icon.

~~17~~16. The TV-Internet Integration Box according to any one of claims 11 to ~~15~~14, wherein said overlay trigger criteria~~on~~ include~~s~~ at least one of the following: a timing information, data specifying one or more TV subscriber channels~~, a user command information~~.

~~18~~17. The method according to claim 1, wherein said overlay trigger criteria~~on~~ include~~s~~ at least one of the following: a timing information, data specifying one or more TV subscriber channels~~, a user command information~~.