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(73) Patentinhaber:
Koninklijke Philips N.V., Eindhoven, NL

(74) Vertreter:
Eisenführ Speiser Patentanwälte Rechtsanwälte PartGmbB, 28217 Bremen, DE

(72) Erfinder:
VAN DER MEER, Jan, NL-5621 BA Eindhoven, NL; SPIERO, Richard, Cees, NL-5621 BA Eindhoven, NL; WEMELSFELDER, Armand, Victor, NL-1200 JD Hilversum, NL; DE HAAN, Wiebe, NL-5621 BA Eindhoven, NL

(54) Bezeichnung: **ÜBERTRAGUNGSSYSTEM FÜR UNTERTITEL**

(57) Hauptanspruch: A method of transmitting a multiplexed stream comprising active video data and encoded data defining a graphic image in the form of a rectangular region for display within an area of an active video signal, the pixels forming said region being individually defined by the encoded data, characterized in that the encoded data for each graphic image includes the size and position of said region and a time stamp representing the time at which said region is to be displayed.

Beschreibung

[0001] hat der 2. Senat (Nichtigkeitssenat) des Bundespatentgerichts auf Grund der mündlichen Verhandlung vom 1. Februar 2018 für Recht erkannt:

I. Das europäische Patent 0 745 307 wird unter Klageabweisung im Übrigen mit Wirkung für das Hoheitsgebiet der Bundesrepublik Deutschland dadurch teilweise für nichtig erklärt, dass seine Ansprüche folgende Fassung erhalten:

Patentansprüche

1. A method of transmitting a multiplexed stream comprising active video data and encoded data defining a graphic image in the form of a rectangular region for display within an area of an active video signal, the pixels forming said region being individually defined by the encoded data, characterized in that the encoded data for each graphic image includes the size and position of said region and a time stamp representing the time at which said region is to be displayed.

2. A method as claimed in claim 1, wherein subsequent encoded data for a given region includes a visibility code to disable the display of said region.

3. A method as claimed in claim 1, wherein a region comprises a plurality of subregions including an identifier code to allow a graphic image defined by said subregion to be referred to by a further region.

4. A method as claimed in claim 1, wherein the pixels for a region are encoded as entries of a colour-look-up-table, the encoded data including a compatibility code indicating a required minimum number of entries of said colour-look-up-table.

5. A method as claimed in claim 4, wherein the pixels are defined by n-bit pixel data, the encoded data further including a map table for mapping said n-bit pixel data to a colour-look-up-table having more than 2^n entries.

6. A method as claimed in any of the preceding claims, wherein the encoded data is accommodated in a private transport stream according to the MPEG2 standard or extension thereof.

7. A method of receiving a multiplexed stream comprising active video data and encoded data defining a graphic image in the form of a rectangular region for display within an area of an active video signal, comprising the steps of decoding said encoded data into individual pixels constituting said region, storing said pixels, and generating display signals representing said pixels, characterized by the steps of decoding from said encoded data for each graphic image the size and position of said region and a time stamp, and displaying the region with said size and position from a time represented by said time stamp.

8. A method as claimed in claim 7, further comprising the steps of decoding a visibility code included in subsequent encoded data for a given region, and disabling the generation of said display signals for said region in response to said visibility code.

9. A method as claimed in claim 7, wherein a region comprises a plurality of subregions including an identifier code, comprising the step of including said subregion in a further region referring to said subregion.

10. A method as claimed in claim 7, wherein the pixels for a region are encoded as entries of a colour-look-up-table and the encoded data includes a compatibility code indicating a required minimum number of entries of said colour-look-up-table, comprising the step of disabling the generation of display signals if the required number of entries is less than available.

11. A method as claimed in claim 10, further comprising the steps of receiving map table data, and storing said map table data in a map table for mapping n-bit pixel data to a colorlook-up-table having more than 2^n entries.

12. A method as claimed in any of claims 7-11, wherein the video signal is encoded according to an MPEG2 standard or extension thereof, and wherein the encoded data defining the graphic image is accommodated in packets of an MPEG2 private transport stream.

13. A transmitter for transmitting a multiplexed stream comprising active video data and encoded data defining a graphic image in the form of a rectangular region within an area of an active video signal, comprising means for encoding the individual pixels forming said region, characterized by further comprising means for including in the encoded data for each graphic image the size and position of said region and a time stamp representing the time at which said region is to be displayed.

14. A receiver coupled to a display screen for receiving a multiplexed stream comprising active video data and encoded data defining a graphic image in the form of a rectangular region within an area of an active video signal, comprising means for decoding said encoded data into individual pixels constituting said region, means for storing said pixels, and means for generating display signals representing said pixels, characterized by further comprising means for decoding from said encoded data for each graphic image the size and position of said region and a time stamp, and means for displaying the region with said size and position from a time represented by said time stamp.

15. An image signal comprising a multiplexed stream comprising an active video signal and encoded data defining a graphic image in the form of a rectangular region within an area of an active video signal, the pixels forming said region being individually defined by the encoded data, characterized in that the encoded data for each graphic image includes the size and position of said region and a time stamp representing the time at which said region is to be displayed.

Es folgen keine Zeichnungen

Das Dokument wurde durch die Firma Jouve erstellt.