SG 9905153-4
IPOS

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04N

A2

(11) International Publication Number: **WO 99/43147**

(43) International Publication Date: 26 August 1999 (26.08.99)

(21) International Application Number: PCT/US99/03417

(22) International Filing Date: 17 February 1999 (17.02.99)

(30) Priority Data:
09/026,865 20 February 1998 (20.02.98) US

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(81) Designated States: AU, CA, CN, JP, KR, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
Without international search report and to be republished upon receipt of that report.

(54) Title: DUAL COMPRESSED VIDEO BITSTREAM CAMERA FOR UNIVERSAL SERIAL BUS CONNECTION

(57) Abstract

A method for presenting video on a local monitor (318) and a remote monitor (300') includes encoding (312) an original video signal (V) to produce a first compressed video signal (LLV_1). Using the first compressed video signal, the video signal is also encoded to produce a second compressed video signal (ELV_1). Both the first and second compressed video signals are transmitted to a local terminal (314) where they are decoded to produce first (DVL_1) and second decoded video signals. A first decoded version of the video signal (DVE_1) is produced from a combination of the first and second decoded video signals. Only the first compressed video (LLV_1; LLV_r) signal is transmitted to the remote terminal at which a second decoded version (DVL_r) of the video signal is recovered from only the first compressed video signal (LLV_r). The first compressed video signal may be produced by motion compensation temporally encoding (460) and spatially encoding (430) the original video signal (V). The second compressed video signal may be produced by both spatially and motion compensation temporally decoding the first compressed video signal and subtracting (418) each pixel of each picture thereof from a corresponding, spatially and temporally aligned pixel of a picture of the original video signal (V) to form a difference video signal. The difference video signal is then only spatially encoded to produce the second compressed video signal. To produce the first decoded version of the original video signal, the first compressed video signal may be both spatially (504, 506, 508) and motion compensation temporally (510, 512, SW) decoded and the second compressed video signal may be only spatially decoded. Each pixel of each picture of the second decoded video signal may be added (514) to a corresponding temporally and spatially aligned picture pixel of the first decoded video signal.

