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(21) International Application Number: PCT/GB90/01983 (22) International Filing Date: 19 December 1990 (19.12.90) (30) Priority data: 8928568.8 19 December 1989 (19.12.89) GB (71)(72) Applicants and Inventors: MELZER, Eric, Ransome [GB/GB]; 1 Russell Road, Walton-on-Thames, Surrey KT12 2JZ (GB). HOWLETT, Robert, Douglas [GB/GB]; 319 Kingston Road, Ewell, Surrey KT19 0BP (GB). (74) Common Representative: MELZER, Eric, Ransome; 1 Russell Road, Walton-on-Thames, Surrey KT12 2JZ (GB).		(81) Designated States: AT (European patent), AU, BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), JP, KR, LU (European patent), NL (European patent), SE (European patent), US. Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: VIDEO CAMERA RECORDERS AND/OR RECORDING SYSTEMS (57) Abstract A modified video camera recorder and/or recorder system wherein teletext encoder means are provided for encoded recording of vertical interval test and/or data e.g. standard teletext P888 on the video tape, especially using a high band system such as super VHS.		

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VIDEO CAMERA RECORDERS AND/OR RECORDING SYSTEMS

This invention relates to video camera recorders and/or recording systems.

Many video camera recorders currently available, during filming, display in the view finder details of time and date of recording and exposure settings etc., used during filming.

Such information is, however, not transferred to the video tape and is hence lost.

This invention provides a modified video camera recorder and/or recorder system wherein teletext encoder means are provided for encoded recording of vertical interval test and/or data e.g. standard teletext P888 on the video tape, especially using a high band system such as super VHS.

The inclusion of such a facility allows encoded recording of the information normally displayed in the view finder e.g. time and date of recording but also allows inclusion of a tape run clock to encode a constant real time reference thereby providing greater ease of editing, and a greater ease of sub-titling.

The modification according to the invention merely requires the inclusion of a suitably programmed chip in the camera circuitry.

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CLAIMS

1. A modified video camera recorder and/or recorder system wherein teletext encoder means are provided for encoded recording of vertical interval test and/or data e.g. standard teletext P888 on the video tape, especially using a high band system such as super VHS.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 90/01983

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶ According to International Patent Classification (IPC) or to both National Classification and IPC IPC ⁵ : H 04 N 5/76, //H 04 N 7/087														
II. FIELDS SEARCHED <div style="text-align: center; margin-top: 10px;">Minimum Documentation Searched ⁷</div> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">Classification System</td> <td style="border: none;">Classification Symbols</td> </tr> <tr> <td style="border: none; padding: 10px;">IPC⁵</td> <td style="border: none; padding: 10px;">H 04 N</td> </tr> </table> <div style="text-align: center; margin-top: 10px;">Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸</div>			Classification System	Classification Symbols	IPC ⁵	H 04 N								
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III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; padding: 5px;">Category ⁹</th> <th style="width: 70%; padding: 5px;">Citation of Document, ¹¹ with Indication, where appropriate, of the relevant passages ¹²</th> <th style="width: 20%; padding: 5px;">Relevant to Claim No. ¹³</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: top; padding: 10px;">Y</td> <td style="padding: 10px;"> Patent Abstracts of Japan, vol. 9, no. 35 (E-296)(1758), 14 February 1985, & JP, A, 59178084 (NIHON KOUGAKU KOGYO K.K.) 9 October 1984 see the abstract <div style="text-align: center;">--</div> </td> <td style="text-align: center; vertical-align: top; padding: 10px;">1</td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 10px;">Y</td> <td style="padding: 10px;"> IEEE Transactions on Consumer Electronics, vol. 35, no. 4, November 1989, IEEE, (New York, US), Y. Ichinoi et al.: "Recording and decoding of teletext signal with S-VHS VCR", pages 797-802 see the whole article <div style="text-align: center;">--</div> </td> <td style="text-align: center; vertical-align: top; padding: 10px;">1</td> </tr> <tr> <td style="text-align: center; vertical-align: top; padding: 10px;">A</td> <td style="padding: 10px;"> Funkschau, vol. 57, no. 10, May 1985, Munich, DE), "Angetreten zum Wettkampf", pages 37-42 see page 40, right-hand column, line 28 - page 41, left-hand column, line 19 <div style="text-align: right;">./.</div> </td> <td style="text-align: center; vertical-align: top; padding: 10px;">1</td> </tr> </tbody> </table>			Category ⁹	Citation of Document, ¹¹ with Indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³	Y	Patent Abstracts of Japan, vol. 9, no. 35 (E-296)(1758), 14 February 1985, & JP, A, 59178084 (NIHON KOUGAKU KOGYO K.K.) 9 October 1984 see the abstract <div style="text-align: center;">--</div>	1	Y	IEEE Transactions on Consumer Electronics, vol. 35, no. 4, November 1989, IEEE, (New York, US), Y. Ichinoi et al.: "Recording and decoding of teletext signal with S-VHS VCR", pages 797-802 see the whole article <div style="text-align: center;">--</div>	1	A	Funkschau, vol. 57, no. 10, May 1985, Munich, DE), "Angetreten zum Wettkampf", pages 37-42 see page 40, right-hand column, line 28 - page 41, left-hand column, line 19 <div style="text-align: right;">./.</div>	1
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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>¹⁰ Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>														
IV. CERTIFICATION <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; padding: 10px;"> Date of the Actual Completion of the International Search <div style="text-align: center;">3rd April 1991</div> </td> <td style="width: 50%; border: none; padding: 10px;"> Date of Mailing of this International Search Report <div style="text-align: center;">- 6 MAY 1991 -</div> </td> </tr> <tr> <td style="border: none; padding: 10px;"> International Searching Authority <div style="text-align: center;">EUROPEAN PATENT OFFICE</div> </td> <td style="border: none; padding: 10px;"> Signature of Authorized Officer <div style="text-align: center;"> </div> </td> </tr> </table>			Date of the Actual Completion of the International Search <div style="text-align: center;">3rd April 1991</div>	Date of Mailing of this International Search Report <div style="text-align: center;">- 6 MAY 1991 -</div>	International Searching Authority <div style="text-align: center;">EUROPEAN PATENT OFFICE</div>	Signature of Authorized Officer <div style="text-align: center;"> </div>								
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III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category *	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	US, A, 4574319 (M. KONISHI) 4 March 1986 see column 4, lines 7-12; column 5, lines 6-41 --	1
A	US, A, 4695900 (M. HONJO et al.) 22 September 1987 see column 3, lines 10-30 --	1
A	Symposium Record "Broadcast sessions" of the 16th International TV Symposium, Montreux, CH, 17-22 June 1989, D. Strube: "S-VHS for broadcast and professional applications", pages 490-511 --	
A	EP, A3, 0172991 (GRUNDIG E.M.V.) 5 March 1986 --	
A	EP, A3, 0123959 (TELEFUNKEN) 7 November 1984 --	
A	US, A, 4800448 (K. KANEKO et al.) 24 January 1989 --	
A	Patent Abstracts of Japan, vol. 8, no. 95 (E-242)(1532), 2 May 1984 & JP, A, 5913479 (HITACHI SEISAKUSHO K.K.) 24 January 1984 see the abstract -----	

**ANNEX TO THE INTERNATIONAL SEARCH REPORT
ON INTERNATIONAL PATENT APPLICATION NO.**

GB 9001983

SA 42940

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 19/04/91
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A- 4574319	04-03-86	JP-A- 57185777	16-11-82
US-A- 4695900	22-09-87	JP-A- 60216680	30-10-85
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		JP-A- 63062488	18-03-88