



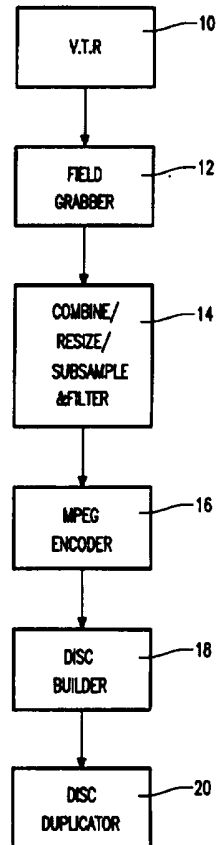
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification<sup>6</sup> : <b>H04N 5/926, 7/01, 7/26</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 96/27981</b> (43) International Publication Date: 12 September 1996 (12.09.96)</p>
<p>(21) International Application Number: PCT/IB96/00147 (22) International Filing Date: 26 February 1996 (26.02.96) (30) Priority Data: 9504307.1 3 March 1995 (03.03.95) GB (71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 5, Kista, S-164 85 Stockholm (SE). (72) Inventors: ANDREW, Derek; Little Greenings, Beggarhouse Lane, Charlwood, Surrey RH6 0ER (GB). FAGG, Ian, Sydney; 23 Lechford Road, Horley, Surrey RH6 7NB (GB). (74) Agent: WHITE, Andrew, Gordon; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).</p>	<p>(81) Designated States: BR, CN, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 31 October 1996 (31.10.96)</p>	

(54) Title: VIDEO IMAGE PROCESSING

(57) Abstract

A method and apparatus are provided for video signal processing of sequences of digitised images originating from video (10) or film. A field grabber (12) receives the digitised images from the input and identifies the separate fields thereof. An image manipulation stage (14) combines fields as required and reduces the number of pixels per line and pixel lines in each image by applying horizontal and vertical compression; this stage also provides filtering and resizing of the image as required. Following encoding (16) of the compressed images, the encoded data stream may then be processed (18) into a form for recording onto, for example, an optical disc. By appropriate choice of the number of lines to which the image manipulation stage (14) reduces the image, discs playable on either PAL or NTSC standard equipment may be produced from a single image source.



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# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/IB 96/00147**

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC6: H04N 5/926, H04N 7/01, H04N 7/26**  
According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

**IPC6: H04N**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0595323 A2 (SONY CORPORATION), 4 May 1994 (04.05.94), see the claims	1,3-5,7-15
Y	--	2,6
Y	US 5243433 A (KEITH, R. HAILEY), 7 Sept 1993 (07.09.93), figure 2, abstract	2,6
Y	--	
A,P	EP 0685968 A2 (VICTOR COMPANY OF JAPAN, LIMITED), 6 December 1995 (06.12.95), column 4, line 56 - column 5, line 4, abstract	1-15
Y	--	

Further documents are listed in the continuation of Box C.       See patent family annex.

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Date of the actual completion of the international search <b>25 Sept 1996</b>	Date of mailing of the international search report <b>27 -09- 1996</b>
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Name and mailing address of the ISA: <b>Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86</b>	Authorized officer <b>Bengt Jonsson Telephone No. +46 8 782 25 00</b>
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**INTERNATIONAL SEARCH REPORT**

International application No.  
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 0514012 A2 (VISTEK ELECTRONICS LIMITED), 19 November 1992 (19.11.92), page 5, line 46 - line 52, figure 5, see the claims --	1-15
A	EP 0428073 A2 (PACIFIC VIDEO, INC.), 22 May 1991 (22.05.91), page 7, line 46 - line 50, figure 6, abstract --	1-15
A	EP 0508342 A1 (DEUTSCHE THOMSON-BRANDT GMBH), 14 October 1992 (14.10.92), abstract --	4
A	GB 2272816 A (SONY UNITED KINGDOM LIMITED), 25 May 1994 (25.05.94), abstract, see the claims -- -----	1-15

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

05/09/96

International application No.

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