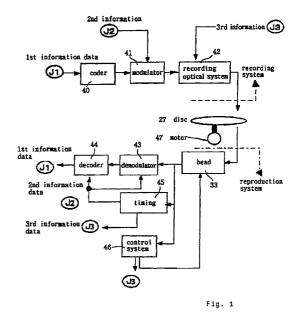
(19)	Europäisches Patentamt European Patent Office Office européen des brevets	(11) EP 0 898 271 A3
(12)	EUROPEAN PATE	NT APPLICATION
(88)	Date of publication A3: 03.01.2001 Bulletin 2001/01	(51) Int. Cl. ⁷ : G11B 7/007 , G11B 7/26 // G11B7/013, G11B7/00
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(30)	Priority: 19.08.1997 JP 22286397	(74) Representative: Einsel, Martin, DiplPhys.
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(54) Optical record carrier and apparatus for recording and reproduction of optical record carrier

(57) An optical record carrier for recording information along tracks provided on the carrier. First information as main information and second information relating to control information for the reproduction of the first information are recorded. In addition, third information which is different from both said first and second information is recorded in association with the second information such that when the first information is reproduced based on the second information, the third information is not directly contained in the first information after demodulation.

The third information is carrier specific information provided e.g. by the manufacturer and is easy to detect but difficult to reproduce, thereby providing protection against unlawful copying of the information record carrier.





European Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 98 11 5557

	DOCUMENTS CONSIDE	RED TO BE RELEVANT		
Category	Citation of document with inc of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 545 472 A (KON) ELECTRONICS NV) 9 Ju * the whole document	ıne 1993 (1993-06-09)	1-8	G11B7/007 G11B7/26 //G11B7/013, G11B7/00
X	EP 0 635 828 A (VIC 25 January 1995 (199 * the whole document		1,2,4,5, 7,8	
x	PATENT ABSTRACTS OF vol. 1997, no. 08, 29 August 1997 (1997 & JP 09 106549 A (SC 22 April 1997 (1997 * paragraph [0052];	7-08-29) DNY CORP), 04-22)	1,2,5,7, 8	
E	& US 5 886 985 A 23 March 1999 (1999 cited for language n * column 12, line 8			
X	EP 0 723 216 A (SON 24 July 1996 (1996-(* the whole document	07-24)	1,2,7,8	TECHNICAL FIELDS SEARCHED (Int.CI.6) G11B
x	PATENT ABSTRACTS OF vol. 1996, no. 10, 31 October 1996 (199 & JP 08 147767 A (V 7 June 1996 (1996-00 * abstract *	96-10-31) ICTOR CO OF JAPAN LTD),	1,2,7,8	
x	PATENT ABSTRACTS OF vol. 014, no. 353 (1 31 July 1990 (1990-(& JP 02 129717 A (H 17 May 1990 (1990-0) * abstract *	2-1086), 07-31) (TACHI MAXELL LTD),	1	
			_	
	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search) U = '	Examiner
X : par Y : par	THE HAGUE CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with anoth	13 November 2000 T : theory or princip E : earlier patent do after the filing da er D : document cited L : document cited	le underlying the cument, but publ te in the application	lished on, or
A : tec O : no	ument of the same category hnological background n-written disclosure ermediate document			



European Patent Office

EUROPEAN SEARCH REPORT

Application Number EP 98 11 5557

	DOCUMENTS CONSIDE				
Category	Citation of document with ind of relevant passag	cation, where appropriate, es	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
ο,Χ	WO 97 50081 A (PHILI ;PHILIPS NORDEN AB (31 December 1997 (19 * the whole document	SE)) 97-12-31)	1,2,4,5, 7,8		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
	The present search report has be				
	Place of search THE HAGUE	Date of completion of the search 13 November 2000	Ho1	Examiner ubov, C	
X : part Y : part doct A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anothe ument of the same category nological background -written disclosure mediate document	T : theory or principle E : earlier patent docu after the filing date r D : document cited in L : document cited for & : member of the sar	T : theory or principle underlying the im E : earlier patent document, but publish after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, document		

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 11 5557

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-11-2000

	atent document d in search repo	rt	Publication date		Patent family member(s)		Publication date
EP	0545472	A	09-06-1993	EP DE DE JP US US US		D T A A A	21-07-19 25-11-19 20-04-20 10-12-19 03-03-19 07-04-19 27-07-19
EP	0635828	A	25-01-1995	JP JP DE DE KR US	7037255 69421459	D T B	16-07-19 07-02-19 09-12-19 10-02-20 15-12-19 29-10-19
JP	09106549	A	22-04-1997	US US US US	5835478 5835461 5886985 5878024	A A	10-11-19 10-11-19 23-03-19 02-03-19
EP	0723216	A	24-07-1996	JP AU AU CA CN US	8147704 716354 3789195 2163177 1133471 6122739	B A A A	07-06-19 24-02-20 23-05-19 19-05-19 16-10-19 19-09-20
JP	08147767	A	07-06-1996	NONE			
JP	02129717	A	17-05-1990	NONE			
WO	9750081	Α	31-12-1997	CN EP HU JP US		A A T	11-11-19 10-06-19 01-02-19 09-11-19 29-02-20

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82