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(54) **Forward link text compression in satellite messaging**

(57) A method of transmitting communication information employing a coding scheme being defined by a character set is disclosed. The characters of the character set are encoded into codewords of a sequence of bits, the codewords being of varying length. The characters are divided into at least two categories. The categories may be a first category of shifted characters and a second category of unshifted characters. Where a shifted character is encountered during encoding a shift codeword is inserted in the sequence of bits. This allows each category to use overlapping codewords. Then the sequence is converted to ASCII characters to be transmitted.

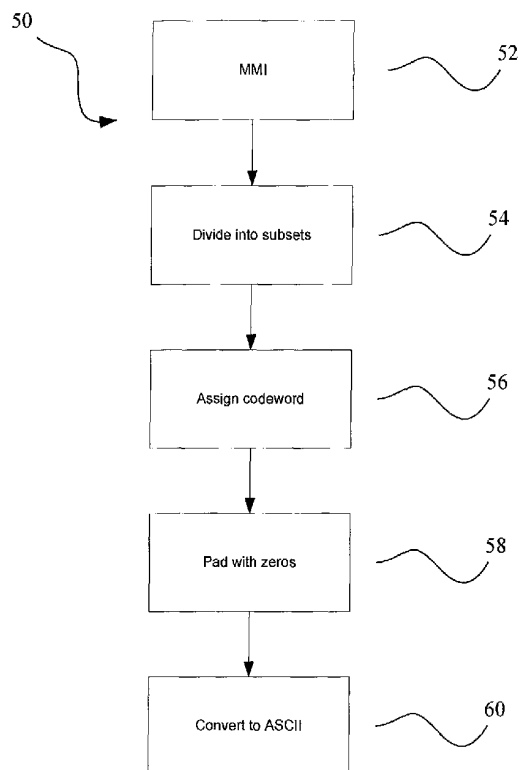


FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	"Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Compression algorithm for text messaging services (3GPP TS 23.042 version 4.0.0 Release 4)" ETSI TS 123 042, March 2001 (2001-03), pages 1-76, XP002227506	1-6, 9-16, 19-22,25	H03M7/40 H03M7/42
Y	* page 8 - page 9 * page 28, Section 6.6 Character group processing - page 30 ---	7,8,17, 18,23,24	
X	US 4 813 056 A (FEDELE NICOLA J) 14 March 1989 (1989-03-14)	1-6, 9-16, 19-22,25	
Y	* abstract * * column 1, line 55 - column 3, line 25 * * column 10, line 45 - line 48 *	7,8,17, 18,23,24	
X	-& US 4 420 771 A (PIRSCH PETER) 13 December 1983 (1983-12-13)	1-6, 9-16, 19-22,25	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H03M
Y	* column 1, line 45 - column 2, line 33 * * column 7, line 5 - line 21 * * tables 2,3 *	7,8,17, 18,23,24	
Y	EP 0 685 970 A (SAMSUNG ELECTRONICS CO LTD) 6 December 1995 (1995-12-06) * column 2, line 37 - line 49 *	7,17,23	
Y	US 5 652 583 A (KANG DONG-SOO) 29 July 1997 (1997-07-29) * column 1, line 9 - line 11 * * column 1, line 45 - line 50 * --- -/--	8,18,24	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 17 January 2003	Examiner Winkler, G
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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Application Number
EP 02 10 2047

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	HANKAMER M.: "A Modified Huffman Procedure with Reduced Memory Requirement" IEEE TRANSACTIONS ON COMMUNICATIONS, vol. COM-27, no. 6, 6 June 1979 (1979-06-06), pages 930-932, XP002227507 page 930, Section II. Modified Huffman Procedure - page 931, left column, line 30 -----	1-25	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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