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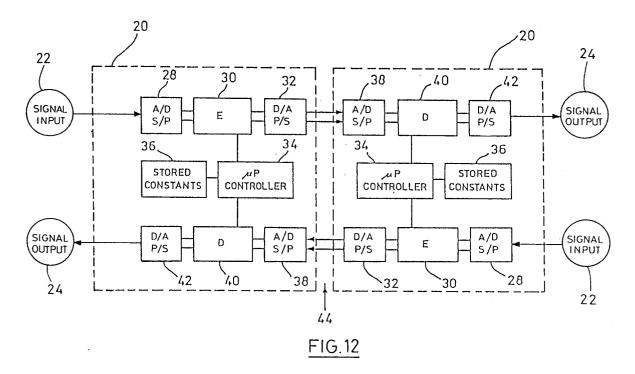
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Signal encryption.

(57) Methods and apparatus for encrypting and subsequently decrypting an analog or digital signal are disclosed. During encryption the signal waveform is transformed by a substantially continuous non-linear complex function of frequency. The transformation is characterised in that the time duration of a trans-

formed impulse signal is substantially increased. Decryption requires transformation of the encrypted signal by substantially the complex inverse of the encryption function. The transformations may vary in time during encryption/decryption of a signal.





EUROPEAN SEARCH REPORT

EP 90 30 0407

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication of relevant passages		Relevant to claim	CLASSIFICATION OF THI APPLICATION (Int. Cl.5)					
Y	EP-A-0 277 392 (PHILIPS)		1,3	H04K1/00					
	* column 4, line 34 - line 5		•						
	* column 5, line 6 - line 31								
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Y	PATENT ABSTRACTS OF JAPAN	1	1,3						
	vol. 7, no. 222 (E-201)(1367								
.	& JP-A-58 114 641 (TATEISHI	•							
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	* abstract *								
A	GB-A-2 094 593 (MARCONI)		1-4						
	* page 1, line 31 - line 110	1							
	* page 4, line 1 - line 39 *								
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				TECHNICAL FIELDS SEARCHED (Int. Cl.5)					
				HO4K					
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	The present search report has been dra	wn up for all claims							
Place of search		Date of campletion of the search		Examiner					
THE HAGUE		27 MARCH 1992	HOLPER G.E.E.						
(CATEGORY OF CITED DOCUMENTS	T: theory or principle	underlying the	invention					
X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons							
					O : non-	-written disclosure	& : member of the sam document	ie patent family	y, corresponding