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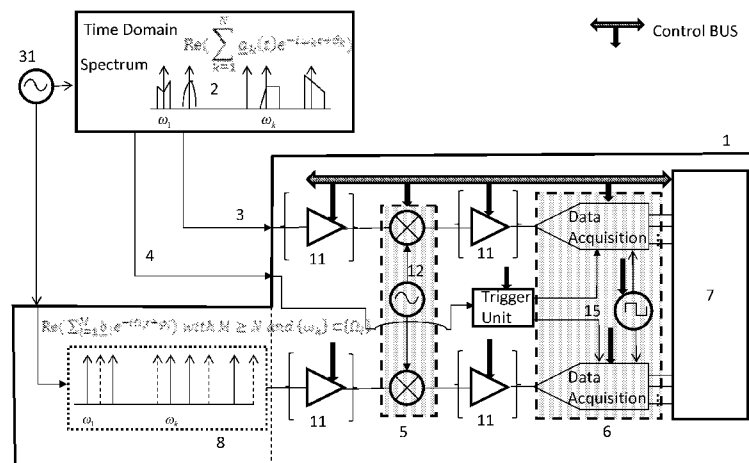
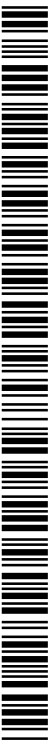


Fig.1

(57) Abstract: The present invention is related to a system (1) for determining a representation of a multi-tone signal (2) comprising a plurality of phase coherent tones, at least two of said phase coherent tones being modulated by a modulating signal, said system comprising an input (3) for applying the multi-tone signal (2), phase coherent mixing means (5) for demodulation in connection with data acquisition means (6) for digitization, said mixing means and data acquisition means arranged for being fed with the multi-tone signal and with a reference signal (8) comprising said phase coherent tones, each pair of phase coherent tones having a fixed phase difference, whereby the data acquisition means is arranged for being triggered by a trigger signal (4) for yielding a representation of said modulation signals with fixed delay, processing means (7) arranged for receiving digital signals output from the data acquisition means and for comparing phase information of a downconverted tone of the multi-tone signal after demodulation with phase information derived from the corresponding tone of the demodulated reference signal and further arranged for controlling the phase coherent mixing means for sequential downconversion, such that a representation of said multi-tone signal can be determined.



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<b>B. FIELDS SEARCHED</b>		
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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 practical, search terms used) EPO-Internal, COMPENDEX, INSPEC, IBM-TDB, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 675 129 A (MELVIN WILLIAM J) 4 July 1972 (1972-07-04) * abstract; claims 1,2,7; figures 6,19 column 2, line 5 - line 75 column 8, line 11 - line 24 column 8, line 36 - line 51 column 10, line 49 - line 68 -----	1-15
A	EP 1 460 814 A2 (SAMSUNG ELECTRONICS CO LTD [KR]) 22 September 2004 (2004-09-22) paragraphs [0002], [0008], [0011], [0030] - [0032]; figures 3a,8a,8b,9+a,9b -----	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Information on patent family members

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