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- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (71) Applicant (for LC only): NOKIA INC [US/US]; 6000 Connection Drive, Irving, Texas 75039 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): OJALA, Pasi [FI/FI]; Neidonkalliontie 9, FIN-02400 Kirkkonummi

(FI). LAKANIEMI, Ari [FI/FI]; Laajalahdentie 24 A 10, FIN-00330 Helsinki (FI).

(74) Agent: ALBERT, JR., G. Peter; Foley & Lardner, LLP, P.O. Box 80278, San Diego, CA 92130 (US).

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(54) Title: SYSTEM AND METHOD FOR PROVIDING AMR-WB DTX SYNCHRONIZATION

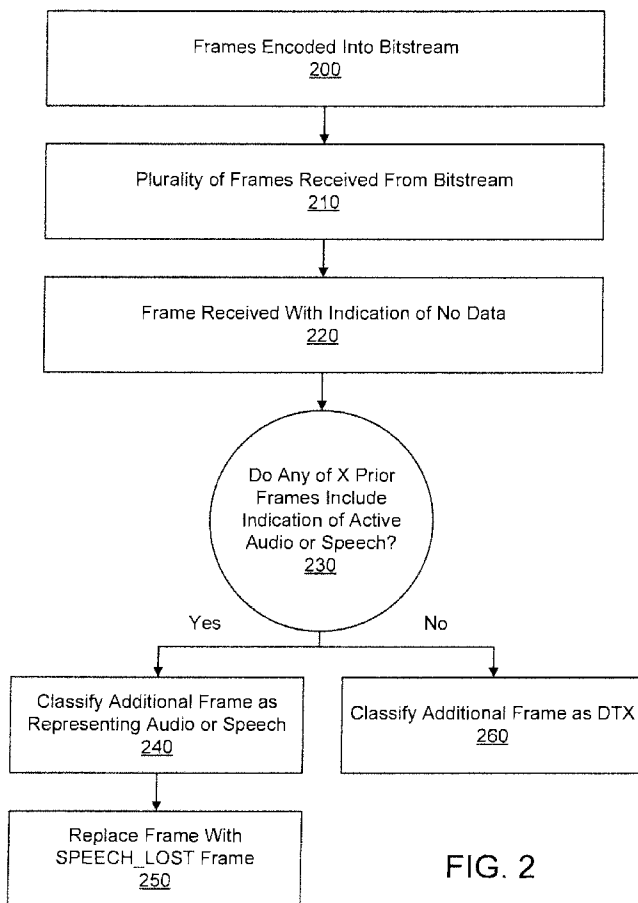


FIG. 2

(57) Abstract: A system and method for providing improved adaptive multi-rate wideband (AMR-WB) discontinuous transmission (DTX) synchronization. According to various embodiments, an indication on the start of the inactive speech period is signalled to the decoder via a voice activity detection (VAD) flag a predetermined number of frames before the DTX period will start, i.e., before the SID_FIRST frame is received. When the VAD flag indicates active speech, or when the VAD flag has been set to zero less than the predetermined number of frames ago, the received NO DATA frame can be classified with a high degree of reliability as active speech, i.e., considered as transmitter, network or terminal-initiated signalling, and can be substituted by a SPEECH_LOST frame. When the VAD flag was set to zero eight frames ago or earlier, the NO_DATA frame is classified as DTX.

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FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
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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)

G10L H04J

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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation (3GPP TS 26.193 version 7.0.0 Release 7); ETSI TS 126 193" ETSI STANDARDS, vol. 3-SA4, no. V7.0.0, 1 June 2007 (2007-06-01), XP014037994 LIS, SOPHIA ANTIPOLIS CEDEX, FRANCE ISSN: 0000-0001 cited in the application page 8, line 7 - line 10 page 8, line 17 - page 9, line 14 page 11, line 5 - line 7 page 16, line 16 - line 24 ----- -/--	1-16

Further documents are listed in the continuation of Box C.

See patent family annex.

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Name and mailing address of the ISA/
 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040,
 Fax: (+31-70) 340-3016

Authorized officer
Ebbinghaus, Stefanie

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 6 504 838 B1 (KWAN KENNY C [CA]) 7 January 2003 (2003-01-07) column 6, line 49 - line 64 column 8, line 1 - line 17 column 13, line 8 - line 51 column 19, line 21 - line 40 column 25, line 24 - line 41 column 27, line 6 - line 19 column 36, line 12 - line 39 -----	1-16
A	US 2005/267746 A1 (JELINEK MILAN [CA] ET AL) 1 December 2005 (2005-12-01) page 1, paragraph 8 page 2, paragraph 11 - paragraph 35 page 4, paragraph 58 page 7, paragraph 120 page 10, paragraph 152 - paragraph 156 page 12, paragraph 185 page 13, paragraph 187 - paragraph 190 page 14, paragraph 206 - paragraph 211 -----	1-16
A	BRUNO BESSETTE ET AL: "The Adaptive Multirate Wideband Speech Codec (AMR-WB)" IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 10, no. 8, 1 November 2002 (2002-11-01), XP011079675 ISSN: 1063-6676 page 620, right-hand column, paragraph 2 - paragraph 3 page 621, right-hand column, paragraph 3 page 628, right-hand column, paragraph 5 - page 629, left-hand column, paragraph 1 page 631, left-hand column, paragraph 5 - right-hand column, paragraph 3 -----	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

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