

**PATENT N°: EP 1509903 B1**

Jurisdiction: EP

<b>Name of the Evaluator</b>
<b>Lead Evaluator</b>
Jochen EHLERS

The above mentioned Evaluator hereby declares that the following claim(s):

- Claim 1
- Claim 54

in the above referenced patent, registered in Europe and validated in the countries of AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, NL, PT, SE, TR, is(are) essential to making, using in, selling within, or importing into, the countries of registration, any 3GPP product (the applicable Product Categories are given below) that is or purports to be in compliance with the following parts of the Third Generation Partnership Program (3GPP) technical standards:

- Document 3GPP TS 26.445 V12.1.0 (2014-12): Sections 4.1, 4.3, 4.4, 4.4.2, 5.5, 5.5.1, 5.5.2, 5.5.3

Claim 1 is relevant for 3GPP Terminal Products and 3GPP Base Station Products.  
Claim 54 is relevant for 3GPP Terminal Products and 3GPP Base Station Products.

**Authorized signature and date**

April 9, 2018



Jochen EHLERS  
Eisenführ Speiser PartGmbB  
Johannes-Brahms-Platz 1  
20355 Hamburg  
Germany

(19)



(11)

**EP 1 509 903 B1**

(12)

**EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:  
**12.04.2017 Bulletin 2017/15**

(51) Int Cl.:  
**G10L 19/005 (2013.01)**

(21) Application number: **03727094.9**

(86) International application number:  
**PCT/CA2003/000830**

(22) Date of filing: **30.05.2003**

(87) International publication number:  
**WO 2003/102921 (11.12.2003 Gazette 2003/50)**

(54) **METHOD AND DEVICE FOR EFFICIENT FRAME ERASURE CONCEALMENT IN LINEAR PREDICTIVE BASED SPEECH CODECS**

VERFAHREN UND VORRICHTUNG ZUR WIRKSAMEN VERSCHLEIERUNG VON RAHMENFEHLERN IN LINEAR PRÄDIKTIVEN SPRACHKODIERERN

PROCEDE ET DISPOSITIF DE MASQUAGE EFFICACE D'EFFACEMENT DE TRAMES DANS DES CODEC VOCAUX DE TYPE LINEAIRE PREDICTIF

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**

(74) Representative: **Ipside**  
**6, Impasse Michel Labrousse**  
**31100 Toulouse (FR)**

(30) Priority: **31.05.2002 CA 2388439**

(56) References cited:  
**EP-A- 0 747 883 WO-A-01/86637**

(43) Date of publication of application:  
**02.03.2005 Bulletin 2005/09**

- **WAH B W ET AL: "A survey of error-concealment schemes for real-time audio and video transmissions over the Internet" MULTIMEDIA SOFTWARE ENGINEERING, 2000. PROCEEDINGS. INTERNATIONAL SYMPOSIUM ON TAIPEI, TAIWAN 11-13 DEC. 2000, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 11 December 2000 (2000-12-11), pages 17-24, XP010528702 ISBN: 0-7695-0933-9**

(73) Proprietor: **VoiceAge Corporation**  
**Ville Mont-Royal,**  
**Quebec H3R 2H6 (CA)**

(72) Inventors:  
 • **JELINEK, Milan**  
**Sherbrooke, Québec J1H 1K4 (CA)**  
 • **GOURNAY, Philippe**  
**Sherbrooke, Québec J1L 2V9 (CA)**

**EP 1 509 903 B1**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).