

Title (en)

Method and device for reducing noise in a decoded signal

Title (de)

Verfahren und Vorrichtung zur Geräuschesunterdrückung bei einem decodierten Signal

Title (fr)

Procédé et dispositif pour réduire le bruit dans un signal décodé

Publication

**EP 1953739 B1 20140604 (DE)**

Application

**EP 08008031 A 20060412**

Priority

- EP 06725716 A 20060412
- DE 102005019863 A 20050428
- DE 102005028182 A 20050617
- DE 102005032079 A 20050708

Abstract (en)

[origin: WO2006114368A1] A noise suppression process comprising a first decoded signal portion (SCELP) and a second decoded signal portion (STDAC) which involves determining a first energy envelope generating curve (ENVCELP) and a second energy envelope generating curve (ENVTDAC) of the first signal portion and of the second decoded signal portion. The process then involves forming an identification number (R) depending on a comparison of the first and second energy envelope generating curves, deriving an amplification factor (G) which depends on the identification number. An independent claim is also included for the device e.g. communication equipment.

[origin: WO2006114368A1] A noise suppression process (S\_OUT) for a decoded signal comprising a first decoded signal portion (S\_CELP) and a second decoded signal portion (S\_TDAC) has the following steps: determining a first energy envelope generating curve (ENV\_CELP) and a second energy envelope generating curve (ENV\_TDAC) of the first signal portion (S\_CELP) and of the second decoded signal portion (S\_TDAC); forming an identification number (R) depending on a comparison of the first and second energy envelope generating curves (ENV\_CELP, ENV\_TDAC); deriving an amplification factor (G) which depends on the identification number (R); advantageously multiplying the second decoded signal portion by the amplification factor, which leads to the desired reduction of pre-echo and post-echo interference noises.

IPC 8 full level

**G10L 19/025** (2013.01); **G10L 19/02** (2006.01); **G10L 19/24** (2013.01); **G10L 21/02** (2013.01); **G10L 21/0364** (2013.01)

CPC (source: EP KR US)

**G10L 19/025** (2013.01 - EP US); **G10L 19/12** (2013.01 - KR); **G10L 19/24** (2013.01 - EP US); **G10L 21/0208** (2013.01 - KR); **G10L 21/0364** (2013.01 - EP US)

Cited by

CN101908342A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006114368 A1 20061102**; AT E435481 T1 20090715; CA 2574468 A1 20061102; CA 2574468 C 20140114; DE 502006004136 D1 20090813; DK 1869671 T3 20091019; EP 1869671 A1 20071226; EP 1869671 B1 20090701; EP 1953739 A2 20080806; EP 1953739 A3 20081008; EP 1953739 B1 20140604; ES 2327566 T3 20091030; JP 2008539456 A 20081113; JP 4819881 B2 20111124; KR 100915726 B1 20090904; KR 20070062493 A 20070615; PL 1869671 T3 20091231; US 2007282604 A1 20071206; US 8612236 B2 20131217

DOCDB simple family (application)

**EP 2006061537 W 20060412**; AT 06725716 T 20060412; CA 2574468 A 20060412; DE 502006004136 T 20060412; DK 06725716 T 20060412; EP 06725716 A 20060412; EP 08008031 A 20060412; ES 06725716 T 20060412; JP 2008508189 A 20060412; KR 20077000819 A 20060412; PL 06725716 T 20060412; US 63252506 A 20060412