

Title (en)  
METHOD FOR PERFORMING AUDIO INPAINTING ON A SPEECH SIGNAL AND APPARATUS FOR PERFORMING AUDIO INPAINTING ON A SPEECH SIGNAL

Title (de)  
VERFAHREN ZUR DURCHFÜHRUNG EINER AUDIO-EINBLENDUNG IN EIN SPRACHSIGNAL UND VORRICHTUNG ZUR DURCHFÜHRUNG EINER AUDIO-EINBLENDUNG IN EIN SPRACHSIGNAL

Title (fr)  
PROCÉDÉ ET APPAREIL PERMETTANT D'EFFECTUER DES RETOUCHES AUDIO SUR UN SIGNAL VOCAL

Publication  
**EP 3113180 B1 20200122 (EN)**

Application  
**EP 15306085 A 20150702**

Priority  
EP 15306085 A 20150702

Abstract (en)  
[origin: EP3113180A1] Audio inpainting is a technique for recovering missing audio samples. Known inpainting methods are not suitable if the missing speech samples are very different from the remaining available speech signal, or if a gap covers an entire word or a sequence of words. An improved method for speech inpainting comprises synthesizing speech or using natural speech recordings for a gap that occurs in a speech signal by using a transcript of the speech signal, converting the synthesized or natural speech by voice conversion according to the original speech signal, and blending the synthesized or natural converted speech into the original speech signal to fill the gap. The disclosed speech audio inpainting technique plausibly recovers lost speech parts with the help of synthetic speech generated from the text transcript or natural speech recordings of the missing part. The synthesized speech is modified by voice conversion to fit with the original speaker's voice.

IPC 8 full level  
**G10L 19/005** (2013.01)

CPC (source: EP)  
**G10L 19/005** (2013.01)

Cited by  
JP6452061B1; US2018211672A1; US11356492B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3113180 A1 20170104; EP 3113180 B1 20200122**; PL 3113180 T3 20200601

DOCDB simple family (application)  
**EP 15306085 A 20150702**; PL 15306085 T 20150702