

Title (en)
METHOD AND APPARATUS FOR DYNAMIC MODIFYING OF THE TIMBRE OF THE VOICE BY FREQUENCY SHIFT OF THE FORMANTS OF A SPECTRAL ENVELOPE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR DYNAMISCHEN MODIFIZIERUNG DES STIMMKLANGS DURCH FREQUENZVERSCHIEBUNG DER FORMANTEN EINER SPEKTRALEN HÜLLKURVE

Title (fr)
METHODE ET APPAREIL DE MODIFICATION DYNAMIQUE DU TIMBRE DE LA VOIX PAR DECALAGE EN FRÉQUENCE DES FORMANTS D'UNE ENVELOPPE SPECTRALE

Publication
EP 3580755 A1 20191218 (FR)

Application
EP 18703604 A 20180212

Priority
• FR 1751163 A 20170213
• EP 2018053433 W 20180212

Abstract (en)
[origin: WO2018146305A1] The present invention describes a method for modifying a sound signal, said method comprising: a step of obtaining time frames of the sound signal, in the frequency domain; for at least one time frame, applying a first transformation of the sound signal in the frequency domain, comprising: a step of extracting a spectral envelope of the sound signal for said at least one time frame; a step of calculating frequencies of formants of said spectral envelope; a step of modifying (350) the spectral envelope of the sound signal, the modification comprising application (351) of an increasing continuous transformation function of frequencies of the spectral envelope, parameterised by at least two frequencies of formants of the spectral envelope.

IPC 8 full level
G10L 21/003 (2013.01); **G10H 1/06** (2006.01)

CPC (source: EP US)
G10L 21/003 (2013.01 - EP); **G10L 21/0332** (2013.01 - US); **G10L 25/18** (2013.01 - US); **G10L 25/51** (2013.01 - US)

Citation (search report)
See references of WO 2018146305A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018146305 A1 20180816; CA 3053032 A1 20180816; CN 110663080 A 20200107; EP 3580755 A1 20191218; FR 3062945 A1 20180817; FR 3062945 B1 20190405; JP 2020507819 A 20200312; US 2019378532 A1 20191212

DOCDB simple family (application)
EP 2018053433 W 20180212; CA 3053032 A 20180212; CN 201880013636 A 20180212; EP 18703604 A 20180212; FR 1751163 A 20170213; JP 2019565053 A 20180212; US 201816485275 A 20180212