Title (en)

METHOD FOR SEARCHING A NOISE MODEL IN NOISY SOUND SIGNALS

Title (de)

VERFAHREN ZUR BESTIMMUNG EINES RAUSCHMODELLS IN EINEM GESTÖRTEN AUDIOSIGNAL

Title (fr)

PROCEDE DE RECHERCHE D'UN MODELE DE BRUIT DANS DES SIGNAUX SONORES BRUITES

Publication

EP 0993671 A1 20000419 (FR)

Application

EP 98935094 A 19980703

Priority

- FR 9801428 W 19980703
- FR 9708509 A 19970704

Abstract (en)

[origin: FR2765715A1] The invention mainly concerns noise reduction of sound signals in a noisy environment, for example in an aircraft pilot's cockpit or any other vehicle, and more precisely it concerns the search for a noise model in sound signals. The method consists in digitising the input signals and processing these signals from a noise model in order to eliminate as far as possible the noise corresponding to the model. The input signals are strobed in successive patterns of P samples each, and an iterative search of a noise model is permanently carried out in the input signals themselves, searching N successive patterns (N ranging between a minimum N1 and a maximum N2) having the expected characteristics of a noise, by storing the NxP corresponding samples to constitute a noise model useful for the noise reduction processing of the input signals, and by repeating the search to find a new noise model and storing the new noise model to replace the previous one or keeping the previous one according to the respective characteristics of the two models. The model is obtained by finding N patterns whereof the energy contents are close to one another (the energy contents ratio being between two values S and 1/S).

IPC 1-7

G10L 3/02

IPC 8 full level

G10L 15/20 (2006.01); **G10L 21/0208** (2013.01); G10L 21/0216 (2013.01)

CPC (source: EP US)

G10L 21/0208 (2013.01 - EP US); G10L 2021/02168 (2013.01 - EP US)

Citation (search report)

See references of WO 9901862A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

FR 2765715 A1 19990108; **FR 2765715 B1 19990917**; DE 69806006 D1 20020718; DE 69806006 T2 20021219; EP 0993671 A1 20000419; EP 0993671 B1 20020612; JP 2002513479 A 20020508; JP 4338226 B2 20091007; US 6438513 B1 20020820; WO 9901862 A1 19990114

DOCDB simple family (application)

FR 9708509 A 19970704; DE 69806006 T 19980703; EP 98935094 A 19980703; FR 9801428 W 19980703; JP 50654799 A 19980703; US 44688699 A 19991230