

Title (en)

METHOD AND SYSTEM FOR ESTIMATING A QUANTITY REPRESENTATIVE OF SOUND ENERGY

Title (de)

VERFAHREN UND SYSTEM ZUM ABSCHÄTZEN EINER FÜR SCHALLENERGIE REPRÄSENTATIVEN GRÖSSE

Title (fr)

PROCÉDÉ ET SYSTÈME D'ESTIMATION D'UNE GRANDEUR REPRÉSENTATIVE DE L'ÉNERGIE SONORE

Publication

**EP 4081769 A1 20221102 (FR)**

Application

**EP 20830216 A 20201218**

Priority

- FR 1915670 A 20191227
- EP 2020087212 W 20201218

Abstract (en)

[origin: WO2021130132A1] Disclosed is a method for estimating a quantity representative of the sound energy at at least one point (r) of a three-dimensional space (E) where a plurality of antennas (A1, Am, AM) are situated, each comprising at least K acoustic sensors (Si), K being greater than or equal to 2, comprising the following steps: - for each antenna of the plurality of antennas, production of a plurality of signals representative of the sound field at the antenna (Am) in question; - for each antenna of the plurality of antennas, determination of a raw value of the quantity at the point (r) based on at least K+1 elements of a matrix based respectively on pairwise combinations of representative signals produced by the antenna (Am) in question; - determination of an estimated value of the quantity at the point (r) by combining the raw values of the quantity at the point (r) determined respectively for the various antennas of the plurality of antennas. An associated system is also described.

IPC 8 full level

**G01H 3/10** (2006.01); **G01S 3/80** (2006.01); **G01S 5/20** (2006.01); **G01S 19/48** (2010.01)

CPC (source: EP US)

**G01H 3/10** (2013.01 - EP); **G01S 3/8006** (2013.01 - EP); **G01S 5/20** (2013.01 - US); **G01S 19/48** (2013.01 - EP)

Citation (search report)

See references of WO 2021130132A1

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