

Title (en)
SOUND PICKUP DEVICE WITH IMPROVED MICROPHONE NETWORK

Title (de)
TONAUFNAHMEVORRICHTUNG MIT VERBESSERTEM MIKROFONNETZWERK

Title (fr)
DISPOSITIF DE CAPTATION SONORE A RÉSEAU DE MICROPHONES PERFECTIONNÉ

Publication
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Application
EP 20739743 A 20200520

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• FR 1906840 A 20190624

Abstract (en)
[origin: WO2020260780A1] The invention relates to a sound pickup device, comprising at least: - a plurality of microphone capsules distributed over a portion P of a sphere S, the sphere portion being circumscribed between two or three planes that are perpendicular to each other, the three planes intersecting at a point corresponding to the centre of the sphere S, and the two planes intersecting at a straight line passing through the centre of the sphere S, and the sphere portion P being such that $P = n S/8$, where $n = 1.2$, - a processing unit connected to the capsules to receive the signals picked up by the capsules, the processing unit being designed to: *matrix the signals in an ambisonic representation which retains only the ambisonic components associated with spherical harmonics which are symmetrical in relation to at least two of the aforementioned planes, and * process a matrix produced in this way in order to identify at least one sound source in a space surrounding the sphere portion and interpret a sound signal originating from said source.

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