

Title (en)
CONDENSER MICROPHONE WITH RING MADE OF CERAMIC

Title (de)
KONDENSATORMIKROFON MIT KERAMIKRING

Title (fr)
MICROPHONE À CONDENSATEUR AVEC UN ANNEAU DE CÉRAMIQUE

Publication
EP 3544317 A1 20190925 (DE)

Application
EP 18163360 A 20180322

Priority
EP 18163360 A 20180322

Abstract (en)
[origin: US2019297430A1] A condenser microphone, including at least one diaphragm, at least one electrode assigned to the diaphragm, comprising at least one ring-shaped insulator holding the electrode, comprising at least one diaphragm ring holding the diaphragm, and a holding ring holding the components mentioned. The mechanical and electrical properties of the condenser microphone are improved where the holding ring includes ceramic material. Preferably, the diaphragm ring and/or the ring-shaped insulator also consist(s) of ceramic material. With further preference, the ceramic material is zirconium oxide.

Abstract (de)
Die Erfindung betrifft ein Kondensator-Mikrofon mit zumindest einer Membrane (1), zumindest einer der Membrane (1) zugeordneten Elektrode (5), zumindest einem ringförmigen Isolator (7), der die Elektrode (5) hält, mit zumindest einem die Membrane (1) haltenden Membranring (2) und gegebenenfalls einem die genannten Bauteile haltenden Haltering (9). Zur Verbesserung der mechanischen und elektrischen Eigenschaften ist vorgesehen, dass der Membranring (2) und/oder der ringförmige Isolator (7) und/oder der Haltering (9) aus keramischem Material bestehen. Bevorzugt ist das keramische Material Zirkoniumoxid.

IPC 8 full level
H04R 19/01 (2006.01); **H04R 19/04** (2006.01)

CPC (source: EP US)
H04R 7/18 (2013.01 - US); **H04R 19/005** (2013.01 - US); **H04R 19/016** (2013.01 - EP US); **H04R 19/04** (2013.01 - EP US); **H04R 31/006** (2013.01 - US); **H04R 2201/003** (2013.01 - US); **H04R 2499/11** (2013.01 - US)

Citation (search report)

- [X] US 2013044899 A1 20130221 - BARBER JOSHUA R [US], et al
- [A] JP S58151799 A 19830909 - MATSUSHITA ELECTRIC IND CO LTD
- [A] GRIESE H J: "SELF-CALIBRATING CONDENSER MICROPHONE WITH INTEGRAL RF CIRCUITRY FOR ACOUSTICAL MEASUREMENTS", JOURNAL OF THE AUDIO ENGINEERING SOCIETY, AUDIO ENGINEERING SOCIETY, NEW YORK, NY, US, vol. 14, no. 1, 1 January 1966 (1966-01-01), pages 47 - 49, XP000796375, ISSN: 1549-4950

Designated contracting state (EPC)
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Designated extension state (EPC)
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EP 3544317 A1 20190925; **EP 3544317 B1 20241030**; US 10602280 B2 20200324; US 2019297430 A1 20190926

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