

Title (en)  
INFINITE BAFFLE WITH LOW STIFFNESS

Title (de)  
UNENDLICHES LEITBLECH MIT GERINGER STEIFIGKEIT

Title (fr)  
ENCEINTE CLOSE À FAIBLE RAIDEUR

Publication  
**EP 3892011 B1 20221214 (FR)**

Application  
**EP 19809862 A 20191203**

Priority  
• FR 1872229 A 20181203  
• EP 2019083498 W 20191203

Abstract (en)  
[origin: WO2020115044A1] Infinite acoustic baffle (10) having a box (12) and a loudspeaker (20) having a membrane (22) that is able to move with respect to the box (12), the box (12) and the membrane (22) delimiting a substantially closed baffle chamber (14); the loudspeaker (20) having an electrically controlled motor (30) for actuating the membrane (22) that is able to move with respect to the box (12), the baffle also having a mechanism (50) for axially urging the membrane (22) away from its median rest position counter to the pressure force exerted on the membrane (22) by the gas contained in the box (12), characterized in that the mechanism (50) has a cam (54) that is movable relative to the box (12) along an axis (X-X) for displacing the cam under the displacement action of the membrane (22), and at least one cam follower (58A, 58B) that is biased transversely to the cam (54) by at least one spring (60A, 60B) and bears on the cam (54), the cam (54) having at least one cam surface (56A, 56B) capable of converting the transverse force of the or each spring (60A, 60B) into an axial force on the cam (54), the intensity of which varies depending on the position of the cam (54) with respect to the box (12).

IPC 8 full level  
**H04R 1/28** (2006.01)

CPC (source: EP US)  
**H04R 1/02** (2013.01 - US); **H04R 1/2811** (2013.01 - EP US); **H04R 1/42** (2013.01 - US); **H04R 7/18** (2013.01 - US); **H04R 7/26** (2013.01 - US); **H04R 9/06** (2013.01 - US); **H04R 11/02** (2013.01 - US); **H04R 2400/11** (2013.01 - US)

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

DOCDB simple family (publication)  
**FR 3089381 A1 20200605**; **FR 3089381 B1 20201030**; CN 113196799 A 20210730; EP 3892011 A1 20211013; EP 3892011 B1 20221214; US 11770648 B2 20230926; US 2022030351 A1 20220127; WO 2020115044 A1 20200611

DOCDB simple family (application)  
**FR 1872229 A 20181203**; CN 201980081370 A 20191203; EP 19809862 A 20191203; EP 2019083498 W 20191203; US 201917298795 A 20191203