

Title (en)  
THIN SPEAKER WITH A VOICE COIL HAVING A DAMPER FUNCTION

Title (de)  
DÜNNER LAUTSPRECHER MIT EINER SCHWINGSPULE MIT DÄMPFERFUNKTION

Title (fr)  
HAUT-PARLEUR MINCE COMPORTANT UNE BOBINE ACOUSTIQUE DOTÉE D'UNE FONCTION D'AMORTISSEUR

Publication  
**EP 3637796 A1 20200415 (EN)**

Application  
**EP 19163790 A 20190319**

Priority  
TW 107136103 A 20181012

Abstract (en)  
A thin speaker with a voice coil having a damper function, includes a frame, a magnetic device, a damper voice coil and a diaphragm. The damper voice coil comprises a holding member and a conductive member. The holding member includes a holding base and two holding suspension portions formed on two ends of the holding base. The conductive member includes a conductor wound to form a first winding at one side of the holding base and a second winding at the other side of the holding base, and two conductive suspension portions formed on two ends of the conductor and located on the top of holding suspension portions. Since the damper voice coil has the functions of a damper and a voice coil, the present invention is capable of maintaining a thin design and ensuring the up and down movements of the holding base to prevent its deflection.

IPC 8 full level  
**H04R 9/04** (2006.01)

CPC (source: EP)  
**H04R 9/046** (2013.01)

Citation (search report)

- [A] EP 2720478 A2 20140416 - EXELWAY INC [KR]
- [A] US 2009226027 A1 20090910 - WU JIA-HROUNG [TW], et al
- [A] US 2018295451 A1 20181011 - MIN DONG HOON [KR], et al
- [A] WO 2018039883 A1 20180308 - HARMAN INT IND [US], et al

Cited by  
CN111836159A; CN114303393A

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3637796 A1 20200415; EP 3637796 B1 20210602**; TW 202015431 A 20200416; TW I686092 B 20200221

DOCDB simple family (application)  
**EP 19163790 A 20190319**; TW 107136103 A 20181012