

Title (en)

A SEAT ARRANGED FOR ENHANCED SOUND PERCEPTION VIA VIBRATION

Title (de)

FÜR VERBESSERTE TONWAHRNEHMUNG ÜBER VIBRATIONEN ANGEORDNETER SITZ

Title (fr)

SIÈGE CONÇU POUR AMÉLIORER LA PERCEPTION SONORE PAR DES VIBRATIONS

Publication

EP 3244633 A1 20171115 (EN)

Application

EP 16169604 A 20160513

Priority

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Abstract (en)

According to an example embodiment, a seat arranged for joint production of vibration and sound is provided. The seat comprises vibration means for jointly producing vibration and sound to reproduce an input audio signal provided as input thereto, said vibration means arranged inside a padding of the seat to generate mechanical vibration that is perceivable as a vibration and sound on at least one outer surface of the padding and to radiate a sound through said at least one outer surface of the padding and said vibration means comprising at least one mechanical actuator and at least one board, wherein said at least one mechanical actuator is arranged to vibrate said at least one board in accordance with the input audio signal. The seat further comprises isolation means for mechanically isolating the vibration means from adjacent structures.

IPC 8 full level

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Citation (applicant)

- WO 2015118217 A1 20150813 - RESONOIVA DESIGN OY [FI]
- EP 16169568 A 20160513

Citation (search report)

- [IY] US 2015123774 A1 20150507 - IOFFREDA CHRIS [US], et al
- [A] US 2010127442 A1 20100527 - MURAGISHI YASUSHI [JP], et al
- [A] US 2011276156 A1 20111110 - THWENY TARA [US], et al
- [A] US 2007286435 A1 20071213 - SAKAMOTO KOSUKE [JP], et al
- [Y] US 2009067657 A1 20090312 - YASUSHI MITSUO [JP], et al
- [A] US 5553148 A 19960903 - WERLE BEN [US]

Cited by

KR20190102997A; CN113545106A; US11832039B2; WO2021105554A1; US11805363B2; US11871853B2; EP3531715A1; US10957302B2; EP3531715B1

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