

Title (en)  
ILLUMINATED HEADPHONE SYSTEM

Title (de)  
BELEUCHTETES KOPFHÖRERSYSTEM

Title (fr)  
SYSTÈME D'ÉCOUTEUR ÉCLAIRÉ

Publication  
**EP 3289773 A1 20180307 (EN)**

Application  
**EP 16721608 A 20160429**

Priority  
• US 201514702042 A 20150501  
• US 2016029991 W 20160429

Abstract (en)  
[origin: WO2016178958A1] A headphone system includes a first audio speaker assembly and a second audio speaker assembly, a connecting body extending between the first and second audio speaker assemblies, and a light-diffusing fiber coupled with the connecting body, the light-diffusing fiber having a glass core and a cladding. At least one of the glass core and a core-cladding interface includes a plurality of light scattering structures. A light source is optically coupled to the light-diffusing fiber and configured to emit light into the light-diffusing fiber. The light scattering structures are configured to scatter the emitted light and output the emitted light at least partially along a sidewall of the light-diffusing fiber.

IPC 8 full level  
**H04R 1/02** (2006.01); **H04R 1/10** (2006.01)

CPC (source: EP)  
**H04R 1/028** (2013.01); **H04R 1/1033** (2013.01)

Citation (search report)  
See references of WO 2016178958A1

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)  
**WO 2016178958 A1 20161110**; EP 3289773 A1 20180307

DOCDB simple family (application)  
**US 2016029991 W 20160429**; EP 16721608 A 20160429