

Title (en)
SCREEN SOUND-GENERATING DEVICE

Title (de)
BILDSCHIRMTONERZEUGENDE VORRICHTUNG

Title (fr)
DISPOSITIF DE GÉNÉRATION DE SON D'ÉCRAN

Publication
EP 3920554 A4 20220330 (EN)

Application
EP 20779202 A 20200314

Priority
• CN 201910229225 A 20190325
• CN 2020079386 W 20200314

Abstract (en)
[origin: EP3920554A1] This application provides a screen sounding device. A vibrator and a hard substance that has a specific Young's modulus and area size are disposed under a screen. The vibrator drives, by using the hard substance, the screen to vibrate in a direction perpendicular to a surface of the screen. Therefore, in a process in which the vibrator vibrates the screen by using the hard substance, a vibration area of the screen can be increased by using the hard substance, to enable, as much as possible, most regions of the screen to be vibrated, thereby generating a better vibration effect.

IPC 8 full level
H04R 9/06 (2006.01); **H04R 7/10** (2006.01)

CPC (source: CN EP)
H04R 1/2811 (2013.01 - CN); **H04R 7/10** (2013.01 - EP); **H04R 9/02** (2013.01 - CN); **H04R 9/06** (2013.01 - CN); **H04R 11/02** (2013.01 - EP); **H04R 2400/11** (2013.01 - CN); **H04R 2440/05** (2013.01 - EP); **H04R 2440/07** (2013.01 - EP); **H04R 2499/11** (2013.01 - EP); **H04R 2499/15** (2013.01 - EP)

Citation (search report)
• [XAI] EP 3410739 A1 20181205 - LG DISPLAY CO LTD [KR]
• [X] CN 109032257 A 20181218 - LIU BOWEN
• [X] CN 108566592 A 20180921 - GOERTEK INC
• See references of WO 2020192457A1

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 3920554 A1 20211208; **EP 3920554 A4 20220330**; **EP 3920554 B1 20231011**; CN 110087172 A 20190802; CN 110087172 B 20211015; WO 2020192457 A1 20201001

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