

Title (en)
HAPTIC FEEDBACK ARRANGEMENT

Title (de)
ANORDNUNG FÜR HAPTISCHE RÜCKMELDUNG

Title (fr)
AGENCEMENT DE RETOUR HAPTIQUE

Publication
EP 4176332 A4 20230816 (EN)

Application
EP 20948051 A 20200804

Priority
CN 2020106874 W 20200804

Abstract (en)
[origin: WO2022027248A1] A haptic feedback arrangement (1) comprising at least one haptic signal generating element (2) extending in a main plane (P1), and at least one actuator (3) coupled to the haptic signal generating element (2). The actuator (3) is configured to displace an area of the haptic signal generating element (2) in a direction (D1) perpendicular to the main plane (P1) by generating a transverse wave, the transverse wave propagating from the area and along a longitudinal axis (A1) of the haptic signal generating element (2). This solution allows one actuator to generate displacement of an element along its entire length or area by allowing a transverse wave to travel across that length or area, facilitating a reduction in the number of actuators necessary as well as constructive interference between multiple signals. The displacement may be induced at frequencies which allow efficient vibrations with regards to human sensitivity.

IPC 8 full level
G06F 3/01 (2006.01)

CPC (source: EP)
G06F 3/016 (2013.01)

Citation (search report)

- [X] US 9607491 B1 20170328 - MORTIMER BRUCE J P [US], et al
- [A] US 2009189749 A1 20090730 - SALADA MARK A [US]
- See references of WO 2022027248A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022027248 A1 20220210; CN 116261703 A 20230613; EP 4176332 A1 20230510; EP 4176332 A4 20230816

DOCDB simple family (application)
CN 2020106874 W 20200804; CN 202080104105 A 20200804; EP 20948051 A 20200804