

Title (en)
DEVICE FOR CREATING HAPTIC SENSATIONS ON A SURFACE USING ULTRASONIC WAVES PRODUCING ELLIPTICAL MOVEMENTS

Title (de)
VORRICHTUNG ZUM ERZEUGEN HAPTISCHER EMPFINDUNGEN AUF EINER OBERFLÄCHE MITTELS ULTRASCHALLWELLEN, DIE ELLIPTISCHE BEWEGUNGEN PRODUZIEREN

Title (fr)
DISPOSITIF POUR LA CRÉATION DE SENSATIONS HAPTQUES SUR UNE SURFACE À L'AIDE D'ONDES ULTRASONORES PRODUISANT DES MOUVEMENTS ELLIPTIQUES

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Application
EP 21710535 A 20210129

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Abstract (en)
[origin: WO2021152227A1] The invention relates to a touch interface comprising, on the one hand, an interfacial surface able to generate a haptic-feedback effect in response to a touch of said surface by a user, and, on the other hand, at least one piezoelectric actuator (2, 3) configured to generate, in said interfacial surface, at least one wave of ultrasonic frequency able to endow the particles of this surface with an elliptical movement having a movement component tangential to said surface, which component is denoted $u_t(t)$, and a movement component normal to said surface, which component is denoted $u_n(t)$, characterised in that said wave of ultrasonic frequency is chosen so that the amplitude U_t of the tangential component $u_t(t)$ and the amplitude U_n of the normal component $u_n(t)$ are substantially equal.

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CPC (source: EP KR US)
G06F 3/016 (2013.01 - EP KR US); **G06F 3/041** (2013.01 - KR US); **G06F 2203/04105** (2013.01 - US)

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See references of WO 2021152227A1

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DOCDB simple family (publication)
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