

Title (en)
SYNCHRONIZED ARRAY OF VIBRATION ACTUATORS IN A NETWORK TOPOLOGY

Title (de)
SYNCHRONISIERTE ANORDNUNG VON SCHWINGUNGSAKTUATOREN IN EINER NETZTOPOLOGIE

Title (fr)
ENSEMBLE SYNCHRONISÉ D'ACTIONNEURS À VIBRATION DANS UNE TOPOLOGIE DE RÉSEAU

Publication
EP 2823377 A4 20160106 (EN)

Application
EP 13757289 A 20130306

Priority

- US 201261607092 P 20120306
- US 201213422453 A 20120316
- US 2013029375 W 20130306

Abstract (en)
[origin: WO2013134388A1] The disclosure relates to a Synchronized Array of Vibration Actuators in a Network Topology that provides for synchronized arrays of low-cost, readily available vibration actuators to emulate superlative single actuators and to bring together sets of these emulated high-performance actuators to create a broad range of desired control effects. Such arrays of actuators may operate in both spatial and temporal modes, which can create haptic effects that relate to the user via their position and orientation in space. The spatial mode may create h-pulses or the amplitude of a vibrational effect may change based on the position of the device. And the temporal mode may create vibrational effects that interact with the user to create an awareness of time. Additionally modes include a performance mode, a bandwidth mode, a magnitude mode and a reliability mode. The different control modalities may be combined together into a single vector control space, which spans the haptic capabilities of sets and/or subsets of actuators.

IPC 8 full level
B06B 1/02 (2006.01); **G06F 3/01** (2006.01); **G06F 3/041** (2006.01)

CPC (source: EP)
A63F 13/28 (2014.09); **A63F 13/285** (2014.09); **B06B 1/0215** (2013.01); **B06B 1/04** (2013.01); **G06F 1/1684** (2013.01); **G06F 3/016** (2013.01); **G09B 9/28** (2013.01); **G09B 23/285** (2013.01); **A63F 13/24** (2014.09); **B06B 2201/20** (2013.01); **G06F 2203/013** (2013.01); **G06F 2203/014** (2013.01); **H04M 19/047** (2013.01)

Citation (search report)

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- [Y] US 2005030284 A1 20050210 - BRAUN ADAM C [US], et al
- [Y] US 2010253487 A1 20101007 - GRANT DANNY A [CA], et al
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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

DOCDB simple family (publication)
WO 2013134388 A1 20130912; WO 2013134388 A4 20131107; EP 2823377 A1 20150114; EP 2823377 A4 20160106

DOCDB simple family (application)
US 2013029375 W 20130306; EP 13757289 A 20130306