

## Title (en)

MAN/MACHINE INTERFACE FOR CONTROLLING AT LEAST TWO FUNCTIONS OF A MOTOR VEHICLE

## Title (de)

MENSCH/MASCHINE-SCHNITTSTELLE ZUR STEUERUNG VON MINDESTENS ZWEI FUNKTIONEN EINES KRAFTFAHRZEUGS

## Title (fr)

INTERFACE HOMME MACHINE PERMETTANT DE COMMANDER AU MOINS DEUX FONCTIONS D'UN VÉHICULE AUTOMOBILE

## Publication

**EP 3084584 A1 20161026 (FR)**

## Application

**EP 14828184 A 20141218**

## Priority

- FR 1303006 A 20131219
- FR 2014000290 W 20141218

## Abstract (en)

[origin: WO2015092167A1] The invention relates to a man/machine interface (10) that can be used to control at least two functions of a motor vehicle, said man/machine interface comprising: a capacitive touch pad (20) including an array of electrically charged electrodes, and configured to receive a command for at least two functions; a haptic feedback device (40) configured to supply feedback to the user of the man/machine interface as acknowledgement of the command; and a control device (30) configured to receive a signal from the touch pad that is representative of a command from the user on the touch pad, said signal being linked to the disturbance in the electrostatic field generated by the array of electrodes (50) at the time of a command from the user on the touch pad. The control device is configured to determine the function to be activated when the level of the signal received is greater than or equal to a threshold value according to the number of electrodes in the electrode array of the capacitive touch pad for which the level of the signal is greater than or equal to said threshold value.

## IPC 8 full level

**G06F 3/0488** (2013.01); **B60K 35/10** (2024.01); **G06F 3/01** (2006.01)

## CPC (source: EP US)

**B60K 35/10** (2024.01 - US); **G06F 3/016** (2013.01 - EP US); **G06F 3/0416** (2013.01 - EP US); **G06F 3/044** (2013.01 - US); **G06F 3/0446** (2019.05 - EP); **G06F 3/04883** (2013.01 - US); **G06F 3/04886** (2013.01 - EP US); **G06F 2203/014** (2013.01 - EP US); **G06F 2203/04108** (2013.01 - US); **G06F 2203/04113** (2013.01 - US)

## Citation (examination)

- WO 2013017245 A1 20130207 - AUDI AG [DE], et al
- US 2011181539 A1 20110728 - AONO TOMOTAKE [JP]
- See also references of WO 2015092167A1

## 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 2015092167 A1 20150625**; CN 106462344 A 20170222; CN 106462344 B 20200331; EP 3084584 A1 20161026; FR 3015714 A1 20150626; FR 3015714 B1 20170421; JP 2017500660 A 20170105; US 2016313850 A1 20161027

## DOCDB simple family (application)

**FR 2014000290 W 20141218**; CN 201480069660 A 20141218; EP 14828184 A 20141218; FR 1303006 A 20131219; JP 2016541400 A 20141218; US 201415104311 A 20141218