

Title (en)

APPARATUS, METHOD AND COMPUTER PROGRAM FOR SPATIALLY REPRESENTING A DIGITAL MAP SECTION

Title (de)

VORRICHTUNG, VERFAHREN UND COMPUTERPROGRAMM ZUR RÄUMLICHEN DARSTELLUNG EINES DIGITALEN KARTENAUSSCHNITTS

Title (fr)

DISPOSITIF, PROCÉDÉ ET PROGRAMME D'ORDINATEUR POUR LA REPRÉSENTATION SPATIALE D'UN DÉTAIL D'UNE CARTE NUMÉRIQUE

Publication

**EP 2914933 A1 20150909 (DE)**

Application

**EP 13742613 A 20130724**

Priority

- DE 102012021193 A 20121030
- DE 102012023481 A 20121130
- EP 2013065654 W 20130724

Abstract (en)

[origin: WO2014067677A1] Exemplary embodiments relate to a navigation apparatus (100) for spatially representing a digital map section around a geographical position on the earth's surface on the basis of digital geodata, wherein the digital geodata have height information, having the following features: a first input interface (110) for the digital geodata; a second input interface (120) for coordinates of the geographical position; a third input interface (130) for a perspective stipulation variable corresponding to a desired viewing direction of the position; a processor module (150) which is coupled to the first, second and third input interfaces and is adapted to determine a coordinate transformation of the geodata which corresponds to the desired viewing direction on the basis of the perspective stipulation variable and the geographical position and to assign different visual perception values to the geodata for different topological height values in order to obtain a projection of the geodata which can be visually perceived in different ways and corresponds to the height information; and an output interface (160) which is coupled to the processor module (150) and is intended to output output data corresponding to the projection of the geodata which can be visually perceived in different ways and corresponds to the height information.

IPC 8 full level

**G01C 21/36** (2006.01); **G09B 29/10** (2006.01)

CPC (source: CN EP US)

**G01C 21/3635** (2013.01 - CN EP US); **G01C 21/367** (2013.01 - CN EP US); **G09B 29/106** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2014067677A1

Citation (examination)

- DE 69835122 T2 20061221 - ZANAVY INFORMATICS KK [JP]
- DE 69633421 T2 20050929 - HITACHI LTD [JP], et al
- US 2011229023 A1 20110922 - JONES PETER W J [US], et al
- US 2005156942 A1 20050721 - JONES PETER W J [US]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102012023481 A1 20140430**; CN 104736971 A 20150624; CN 104736971 B 20180914; EP 2914933 A1 20150909; KR 101755134 B1 20170706; KR 20150070240 A 20150624; US 2015285654 A1 20151008; US 9500496 B2 20161122; WO 2014067677 A1 20140508

DOCDB simple family (application)

**DE 102012023481 A 20121130**; CN 201380057338 A 20130724; EP 13742613 A 20130724; EP 2013065654 W 20130724; KR 20157012087 A 20130724; US 201314439902 A 20130724