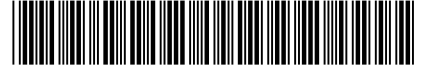


(19)



(11)

EP 2 324 113 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 72, 73

(51) Int Cl.:

C12N 7/01 ^(2006.01) **C07K 14/00** ^(2006.01)
C07H 21/00 ^(2006.01) **A61K 39/12** ^(2006.01)
C07K 14/08 ^(2006.01)

(48) Corrigendum issued on:

04.04.2018 Bulletin 2018/14

(86) International application number:

PCT/US2009/053249

(45) Date of publication and mention of the grant of the patent:

28.02.2018 Bulletin 2018/09

(87) International publication number:

WO 2010/017542 (11.02.2010 Gazette 2010/06)

(21) Application number: **09805653.4**

(22) Date of filing: **10.08.2009**

(54) **VIRUS-LIKE PARTICLES COMPRISING COMPOSITE CAPSID AMINO ACID SEQUENCES FOR ENHANCED CROSS REACTIVITY**

VIRUSÄHNLICHE PARTIKEL MIT ZUSAMMENGESETZTEN CAPSIDAMINOSÄURESEQUENZEN FÜR ERHÖHTE KREUZREAKTIVITÄT

PARTICULES SIMILAIRES À UN VIRUS COMPORTANT DES SÉQUENCES D'ACIDES AMINÉS DE CAPSIDE COMPOSITES POUR UNE RÉACTIVITÉ CROISÉE AMÉLIORÉE

(84) Designated Contracting States:

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 SE SI SK SM TR

- **STEADMAN, Bryan**
Cambridge, MA 02139 (US)

(30) Priority: **08.08.2008 US 87504 P**
19.06.2009 US 218603 P

(74) Representative: **Hoffmann Eitle**
Patent- und Rechtsanwälte PartmbB
Arabellastraße 30
81925 München (DE)

(43) Date of publication of application:
25.05.2011 Bulletin 2011/21

(56) References cited:
WO-A1-93/21325 **WO-A1-2008/042789**
WO-A2-2006/086188 **US-A- 5 953 727**
US-A1- 2007 207 526 **US-B1- 7 067 638**

(60) Divisional application:
18158843.5

(73) Proprietor: **Takeda Vaccines, Inc.**
Cambridge, MA 02139 (US)

- **Foubert, TR et al.:** "Preclinical Development of a Broad Spectrum Norovirus Vaccine.", 2009 AAPS National Biotechnology Conference 6/20/2009 - 6/26/2009 , 23 June 2009 (2009-06-23), XP002663632, Retrieved from the Internet: URL:<http://abstracts.aapspharmaceutica.com/ExpoNBC09/CC/forms/attendee/index.aspx?content=sessionInfo&sessionId=150> [retrieved on 2011-11-14]

(72) Inventors:

- **RICHARDSON, Charles**
Cambridge, MA 02139 (US)
- **BARGATZE, Robert**
Cambridge, MA 02139 (US)
- **HAYNES, Joel**
Cambridge, MA 02139 (US)

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 2 324 113 B8

- MCBURNEY SEAN P ET AL: "Developing broadly reactive HIV-1/AIDS vaccines: a review of polyvalent and centralized HIV-1 vaccines.", **CURRENT PHARMACEUTICAL DESIGN 2007** LNKD- PUBMED:17627529, vol. 13, no. 19, 2007, pages 1957-1964, XP002663633, ISSN: 1873-4286
- WANG C Y ET AL: "Effective synthetic peptide vaccine for foot-and-mouth disease in swine", **VACCINE, ELSEVIER LTD, GB**, vol. 20, no. 19-20, 7 June 2002 (2002-06-07), pages 2603-2610, XP004359694, ISSN: 0264-410X, DOI: 10.1016/S0264-410X(02)00148-2
- MUTHUMANI K ET AL: "Immunogenicity of novel consensus-based DNA vaccines against Chikungunya virus", **VACCINE, ELSEVIER LTD, GB**, vol. 26, no. 40, 14 April 2008 (2008-04-14), pages 5128-5134, XP025349960, ISSN: 0264-410X [retrieved on 2008-04-14]
- CACHIA P J ET AL: "THE USE OF SYNTHETIC PEPTIDES IN THE DESIGN OF A CONSENSUS SEQUENCEVACCINE FOR PSEUDOMONAS AERUGINOSA", **JOURNAL OF PEPTIDE RESEARCH, BLACKWELL PUBLISHING LTD, OXFORD; GB**, vol. 52, no. 4, 1 October 1998 (1998-10-01), pages 289-299, XP000781730, ISSN: 1397-002X