



(11)

EP 2 900 258 B8

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) Int Cl.:
A61K 39/12 (2006.01) A61K 39/02 (2006.01)

(86) International application number:
PCT/US2013/061566

(48) Corrigendum issued on:
01.04.2020 Bulletin 2020/14

(87) International publication number:
WO 2014/052378 (03.04.2014 Gazette 2014/14)

(45) Date of publication and mention
of the grant of the patent:
19.02.2020 Bulletin 2020/08

(21) Application number: **13776622.6**

(22) Date of filing: **25.09.2013**

(54) **SUBUNIT IMMERSION VACCINES FOR FISH**

IN EINER UNTEREINHEIT EINTAUCHBARE IMPFSTOFFE FÜR FISCHE

VACCINS SOUS-UNITAIRES PAR IMMERSION POUR LES POISSONS

(84) Designated Contracting States:
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

• **JOHNSON, Norman William**
Florham Park
New Jersey 07932 (US)

(30) Priority: **26.09.2012 US 201261705704 P**

(74) Representative: **Mitchell, Simon James et al**
Urquhart-Dykes & Lord LLP
Euston House
24 Eversholt Street
London NW1 1AD (GB)

(43) Date of publication of application:
05.08.2015 Bulletin 2015/32

(73) Proprietor: **Benchmark Animal Health Limited**
Sheffield
S35 1QN (GB)

(56) References cited:
• **HUISING MARK O ET AL: "Increased efficacy of immersion vaccination in fish with hyperosmotic pretreatment.", VACCINE 1 OCT 2003, vol. 21, no. 27-30, 1 October 2003 (2003-10-01), pages 4178-4193, XP002718134, ISSN: 0264-410X**
• **SHIVAPPA R B ET AL: "Development of a subunit vaccine for infectious pancreatic necrosis virus using a baculovirus insect/larvae system", PROGRESS IN FISH VACCINOLOGY KARGER, POSTFACH, CH-4009 BASEL, SWITZERLAND SERIES : DEVELOPMENTS IN BIOLOGICALS, 2005, pages 165-174, XP009051154, & 3RD INTERNATIONAL SYMPOSIUM ON FISH VACCINOLOGY; BERGEN, NORWAY; APRIL 09 -11, 2003**

(72) Inventors:
• **CRUMP, Elizabeth Mary**
Florham Park
New Jersey 07932 (US)
• **BURIAN, Jan**
Florham Park
New Jersey 07932 (US)
• **BRICKER, Joseph Michale**
Florham Park
New Jersey 07932 (US)
• **KAY, William Wayne**
Florham Park
New Jersey 07932 (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 2 900 258 B8

- SHOEMAKER CRAIG A ET AL: "Efficacy of a modified live *Flavobacterium columnare* vaccine in fish", FISH & SHELLFISH IMMUNOLOGY, vol. 30, no. 1, January 2011 (2011-01), pages 304-308, XP027581729, ISSN: 1050-4648