

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 June 2006 (08.06.2006)

PCT

(10) International Publication Number
WO 2006/060332 A3

(51) International Patent Classification:

A61K 49/00 (2006.01) C12N 1/12 (2006.01)
A61K 39/00 (2006.01) C12N 15/00 (2006.01)
A61K 39/02 (2006.01) C12N 15/74 (2006.01)
A61K 39/04 (2006.01) C07K 1/00 (2006.01)
A61K 39/38 (2006.01) C07H 21/02 (2006.01)
C12N 1/00 (2006.01) C07H 21/04 (2006.01)

(21) International Application Number:

PCT/US2005/042976

(22) International Filing Date:

29 November 2005 (29.11.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/631,977 1 December 2004 (01.12.2004) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
3 August 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ELECTROPORATION OF MYCOBACTERIUM AND OVEREXPRESSION OF ANTIGENS IN MYCOBACTERIA

(57) Abstract: Recombinant *Mycobacterium* strains with improved vaccinal properties for use as vaccinating agents are provided. The parent strains of the recombinant *Mycobacterium* strains are selected for their potent immunogenicity. The *Mycobacterium* strains do not display antibiotic resistance, and do not exhibit horizontal transfer to gram-negative bacteria.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/42976

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 49/00(2006.01),39/00(2006.01),39/02(2006.01),39/04(2006.01),39/38(2006.01);C12N 1/00(2006.01),1/12(2006.01),15/00(2006.01),15/74(2006.01);C07K 1/00(2006.01);C07H 21/02(2006.01),21/04(2006.01)

USPC: 424/9.1,9.2,184.1,234.1,248.1;435/243,253.1,320.1,440,471,476;530/300,350;536/23.1,23.7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/9.1,9.2,184.1,234.1,248.1;435/243,253.1,320.1,440,471,476;530/300,350;536/23.1,23.7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,736,367 A (HAUN et al) 07 April 1998 (07.04.1998), entire reference.	1,2,11,16-18,22,24,24-26,30-33 ----- 3-10,12-15,19-21,23,27-29
Y	SNAPPER, S.B. et al. Lysogeny and transformation in mycobacteria: Stable expression of foreign genes. Proc. Nat. Acad. Sci. USA, September 1988, vol. 85, pages 6987-6991, entire	1-33
Y	US 6,562,348 B2 (HONDALUS et al) 13 May 2003 (13.05.2003) entire document.	1-33
Y	US 6,423,545 B1 (PAVELKA, JR. et al) 23 July 2002 (23.07.2002), entire reference.	1-33

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

17 May 2006 (17.05.2006)

Date of mailing of the international search report

08 JUN 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
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Alexandria, Virginia 22313-1450

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/42976

Continuation of B. FIELDS SEARCHED Item 3:
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