(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/028658 A3

(51) International Patent Classification[7]: C12N 15/86, 7/02, A61K 39/145

(21) International Application Number: PCT/US2004/016649

(22) International Filing Date: 27 May 2004 (27.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/473,797 28 May 2003 (28.05.2003) US

(71) Applicant *(for all designated States except US)*: **WISCONSIN ALUMNI RESEARCH FOUNDATION** [US/US]; 614 Walnut Street, Madison, WI 53705 (US).

(72) Inventors; and

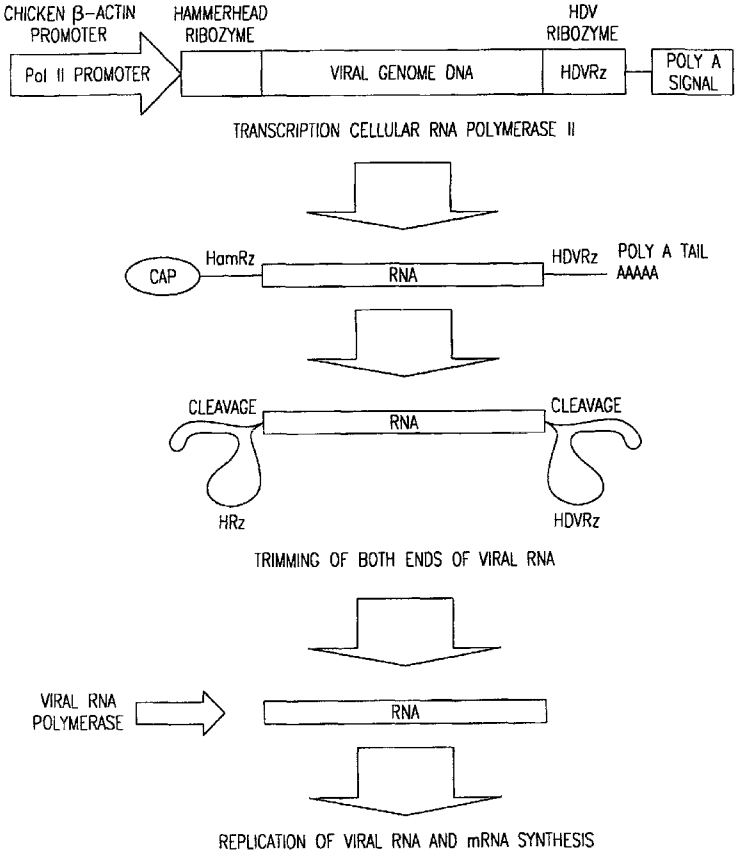
(75) Inventors/Applicants *(for US only)*: **KAWAOKA, Yoshihiro** [JP/US]; 8722 Airport Road, Middleton, WI 53562 (US). **HAMM, Stefan** [US/US]; 614 Walnut Street, Madisson, Wi 53705 (US). **EBIHARA, Hideki** [US/US]; 614 Walnut Street, Madisson, WI 53705 (US).

(74) Agents: **STEFFEY, Charles E.** et al.; SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. Box 2938, Minneapolis, MN 55402 (US).

(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

[Continued on next page]

(54) Title: RECOMBINANT INFLUENZA VECTORS WITH A POLII PROMOTER AND RIBOZYMES



(57) Abstract: The invention provides a composition useful to prepare influenza viruses, e.g., in the absence of helper virus, using vectors which include PolII promoters and multiple ribozyme sequences.

WO 2005/028658 A3

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, IT, LU, 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*

(88) Date of publication of the international search report:
9 June 2005

(48) Date of publication of this corrected version:
13 October 2005

(15) Information about Correction:
see PCT Gazette No. 41/2005 of 13 October 2005, Section II

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.