PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : G06F 19/00 — A2

(11) International Publication Number: WO 00/42561

(43) International Publication Date: 20 July 2000 (20.07.00)

(21) International Application Number: PCT/US00/01203

(22) International Filing Date: 18 January 2000 (18.01.00)

(30) Priority Data:

60/116,447	19 January 1999 (19.01.99)	US
60/118,813	5 February 1999 (05.02.99)	US
60/118,854	5 February 1999 (05.02.99)	US
60/141,049	24 June 1999 (24.06.99)	US
09/408,392	28 September 1999 (28.09.99)	US
09/408,393	28 September 1999 (28.09.99)	US
09/416,375	12 October 1999 (12.10.99)	US
09/416,837	12 October 1999 (12.10.99)	US

(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application
US 09/408,392 (CIP)
Filed on 28 September 1999 (28.09.99)

(71) Applicant *(for all designated States except US)*: MAXYGEN, INC. [US/US]; 515 Galveston Drive, Redwood City, CA 94063 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: CRAMERI, Andreas [CH/US]; Gehrenstrasse 3, CH–4153 Reinach (CH). STEMMER, Willem, P., C. [NL/US]; 108 Kathy Court, Los Gatos, CA 95030 (US). MINSHULL, Jeremy [GB/US]; 11 Homer Lane, Menlo Park, CA 94025 (US). BASS, Steven, H. [US/US]; 950 Parrot Drive, Hillsborough, CA 94010 (US). WELCH, Mark [US/US]; 25 Montalban Drive, Fremont, CA 94536 (US). NESS, Jon, E. [US/US]; 1220 N. Fairoaks Avenue #3115, Sunnyvale, CA 94089 (US). GUSTAFSSON, Claes [SE/US]; 1813 Bayview Avenue, Belmont, CA 94002 (US). PATTEN, Phillip, A. [US/US]; Apartment 506, 2680 Fayette Drive, Mountain View, CA 94040 (US).

(74) Agents: QUINE, Jonathan, Alan; The Law Offices of Jonathan Alan Quine, P.O. Box 458, Alameda, CA 94501 (US) et al.

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
Without international search report and to be republished upon receipt of that report.

(54) Title: OLIGONUCLEOTIDE MEDIATED NUCLEIC ACID RECOMBINATION

(57) Abstract

Methods of recombining nucleic acids, including homologous nucleic acids, are provided. Families of gene shuffling oligonucleotides and their use in recombination procedures, as well as polymerase and ligase mediated recombination methods are also provided.

