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Appendix A

CaseNumber	Broad Ref#	AppNumber	FilDate	AppTitle
44790.AA.2003	BI-2011/008.PA1	61/736,527	12-Dec-12	SYSTEMS METHODS AND COMPOSITIONS FOR SEQUENCE

				MANIPULATION
44790.BB.2003	BI-2011/008.PA2	61/748,427	2-Jan-13	SYSTEMS METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.00.2003	BI-2011/008.PA3	61/757,972	29-Jan-13	SYSTEMS METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.01.2003	BI-2011/008.PA4	61/768,959	25-Feb-13	SYSTEMS METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.02.2003	BI-2011/008.PA5	61/791,409	15-Mar-13	SYSTEMS METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.03.2003	BI-2011/008.PA6	61/835,931	17-Jun-13	SYSTEMS METHODS AND COMPOSITION FOR SEQUENCE MANIPULATION
44790.07.2003	BI-2011/008.US1	14/105,035	12-Dec-13	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.99.2003	BI-2011/008.WO1	PCT/US2013/0746 11	12-Dec-13	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.80.2003	BI-2011/008.EP1	13812430	29-Sep-14	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.80.2044	BI-2011/008A.EP1	13824232.6	2-May-14	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS
44790.04.2003	BI-2011/008A.US1	61/842,322	2-Jul-13	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS
44790.05.2003	BI-2011/008A.US2	14/054,414	15-Oct-13	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS (USP 8,697,359, issued April 15, 2014)
44790.11.2003	BI-2011/008A.US3	14/183,429	18-Feb-14	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS (USP 8,771,945, issued July 8, 2014)
44790.10.2003	BI-2011/008A.US4	14/183,486	18-Feb-14	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION (USP 8,795,965, issued August 5, 2014)
44790.13.2003	BI-2011/008A.US5	14/256,912	18-Apr-14	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS
44790.14.2003	BI-2011/008A.US6	14/497,627	26-Sep-14	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.99.2044	BI-2011/008A.WO1	PCT/US2013/0747 43	12-Dec-13	CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS
44790.06.2003	BI-2011/008B.US1	14/105,031	12-Dec-13	CRISPR-CAS NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION IN EUKARYOTES
44790.08.2003	BI-2011/008B.US2	14/183,471	18-Feb-14	CRISPR-CAS NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION IN EUKARYOTES (USP 8,889,356 to be issued November 18, 2014)
44790.09.2003	BI-2011/008B.US3	14/258,458	22-Apr-14	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.12.2003	BI-2011/008B.US4	14/259,420	23-Apr-14	CRISPR-CAS COMPONENT SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION (USP 8,871,445, issued October 28, 2014)
44790.99.2045	BI-2011/008B.WO1	PCT/US2013/0747 90	12-Dec-13	CRISPR-CAS NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR

				SEQUENCE MANIPULATION IN EUKARYOTES
44790.00.2005	BI-2011/020.PA1	61/675,778	25-Jul-12	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.01.2005	BI-2011/020.PA2	61/721,283	1-Nov-12	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.02.2005	BI-2011/020.PA3	61/736,465	12-Dec-12	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.03.2005	BI-2011/020.PA4	61/794,458	15-Mar-13	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.12.2022	BI-2011/020.PA5	61/835,973	17-Jun-13	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.99.2005	BI-2011/020.WO1	PCT/US13/051418	21-Jul-13	INDUCIBLE DNA BINDING PROTEINS AND GENOME PERTURBATION TOOLS AND APPLICATIONS THEREOF
44790.11.2022	BI-2012/084.PA1	61/836,080	17-Jun-13	METHODS, SYSTEMS, AND APPARATUS FOR IDENTIFYING TARGET SEQUENCES FOR CAS ENZYMES OR CRISPR-CAS SYSTEMS FOR TARGET SEQUENCES AND CONVEYING RESULTS THEREOF
44790.00.2040	BI-2012/084A.US1	14/104,900	12-Dec-13	METHODS, SYSTEMS, AND APPARATUS FOR IDENTIFYING TARGET SEQUENCES FOR CAS ENZYMES OR CRISPR-CAS SYSTEMS FOR TARGET SEQUENCES AND CONVEYING RESULTS THEREOF
44790.99.2040	BI-2012/084A.WO1	PCT/US2013/074825	12-Dec-13	METHODS, SYSTEMS, AND APPARATUS FOR IDENTIFYING TARGET SEQUENCES FOR CAS ENZYMES OR CRISPR-CAS SYSTEMS FOR TARGET SEQUENCES AND CONVEYING RESULTS THEREOF
44790.99.2046	BI-2012/084B.WO1	PCT/US2013/074812	12-Dec-13	METHODS, MODELS, SYSTEMS, AND APPARATUS FOR IDENTIFYING TARGET SEQUENCES FOR CAS ENZYMES FOR CRISPR-CAS SYSTEMS FOR TARGET SEQUENCES AND CONVEYING RESULTS THEREOF
44790.00.2041	BI-2013/003.US1	14/104,837	12-Dec-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND THERAPEUTIC APPLICATIONS
44790.01.2041	BI-2013/003.US2	14/183,512	18-Feb-14	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND THERAPEUTIC APPLICATIONS
44790.02.2041	BI-2013/003.US3	14/481,339	9-Sep-14	DELIVERY, ENGINEERING, AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND THERAPEUTIC APPLICATIONS
44790.99.2041	BI-2013/003.WO1	PCT/US2013/074667	12-Dec-13	DELIVERY, ENGINEERING, AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND THERAPEUTIC APPLICATIONS
44790.00.2022	BI-2013/003/004.PA1	61/758,468	30-Jan-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE

				MANIPULATION
44790.01.2022	BI-2013/003/004.PA2	61/769,046	25-Feb-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.02.2022	BI-2013/003/004.PA3	61/802,174	15-Mar-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.03.2022	BI-2013/003/004.PA4	61/806,375	28-Mar-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.04.2022	BI-2013/003/004.PA5	61/814,263	20-Apr-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.05.2022	BI-2013/003/004.PA6	61/819,803	6-May-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.06.2022	BI-2013/003/004.PA7	61/828,130	28-May-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.10.2022	BI-2013/003D.PA1	61/836,123	17-Jun-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND APPLICATIONS
44790.13.2022	BI-2013/003D.PA2	61/847,537	17-Jul-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND APPLICATIONS
44790.14.2022	BI-2013/003D.PA3	61/862,355	5-Aug-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND APPLICATIONS
44790.15.2022	BI-2013/003D.PA4	61/871,301	28-Aug-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND APPLICATIONS
44790.16.2022	BI-2013/003D.PA5	61/915,383	12-Dec-13	OPTIMIZED CRISPR-CAS DOUBLE NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.99.2022	BI-2013/003D.WO1	PCT/US2014/041803	10-Jun-14	OPTIMIZED CRISPR-CAS DOUBLE NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.09.2022	BI-2013/004E.PA1	61/836,101	17-Jun-13	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.00.2042	BI-2013/004E.US1	14/104,977	12-Dec-13	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.01.2042	BI-2013/004E.US2	14/222,930	24-Mar-14	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION (USP 8,865,406, issued October 21, 2014)
44790.02.2042	BI-2013/004E.US3	14/293,498	2-Jun-14	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.03.2042	BI-2013/004E.US4	14/293,674	2-Jun-14	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR

				SEQUENCE MANIPULATION (USP8,889,418, to be issued November 18, 2014)
44790.99.2042	BI-2013/004E.WO1	PCT/US2013/0746 91	12-Dec-13	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.07.2022	BI-2013/004F.PA1	61/835,936	17-Jun-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION WITH FUNCTIONAL DOMAINS
44790.00.2043	BI-2013/004F.US1	14/105,017	12-Dec-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION WITH FUNCTIONAL DOMAINS
44790.01.2043	BI-2013/004F.US2	14/226,274	26-Mar-14	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION WITH FUNCTIONAL DOMAINS
44790.99.2043	BI-2013/004F.WO1	PCT/US2013/0747 36	12-Dec-13	ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION WITH FUNCTIONAL DOMAINS
44790.80.2047	BI-2013/004G.EP1	13818570.7	27-May-14	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED GUIDE COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.80.2075	BI-2013/004G.EP2	14170383.5	28-May-14	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED GUIDE COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.08.2022	BI-2013/004G.PA1	61/836,127	17-Jun-13	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.00.2047	BI-2013/004G.US1	14/104,990	12-Dec-13	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED GUIDE COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.01.2047	BI-2013/004G.US2	14/290,575	29-May-14	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED GUIDE COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.99.2047	BI-2013/004G.WO1	PCT/US2013/0748 19	12-Dec-13	ENGINEERING OF SYSTEMS, METHODS AND OPTIMIZED GUIDE COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.00.2024	BI-2013/007.PA1	61/799,800	15-Mar-13	RECOMBINANT VIRUS AND PREPARATIONS THEREOF
44790.01.2024	BI-2013/007.US1	14/213,991	14-Mar-14	RECOMBINANT VIRUS AND PREPARATIONS THEREOF
44790.99.2024	BI-2013/007.WO1	PCT/US2014/3039 4	17-Mar-14	RECOMBINANT VIRUS AND PREPARATIONS THEREOF
44790.00.2034	BI-2013/066.PA1	61/862,468	5-Aug-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF SYSTEMS, METHODS AND OPTIMIZED COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.01.2034	BI-2013/066.PA2	61/915,407	12-Dec-13	DELIVERY, ENGINEERING AND OPTIMIZATION OF TANDEM GUIDE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.02.2034	BI-2013/066.PA3	61/979,942	15-Apr-14	DELIVERY, ENGINEERING AND OPTIMIZATION OF TANDEM GUIDE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.99.2034	BI-2013/066.WO1	PCT/US2014/0418	10-Jun-14	DELIVERY, ENGINEERING AND

		00		OPTIMIZATION OF TANDEM GUIDE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION
44790.00.2035	BI-2013/073.PA1	61/960,777	25-Sep-13	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, SCREENS AND APPLICATIONS THEREOF
44790.03.2035	BI-2013/073.PA2	61/995,636	15-Apr-14	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, SCREENS AND APPLICATIONS THEREOF
44790.99.2035	BI-2013/073.WO1	PCT/US2014/041806	10-Jun-14	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, SCREENS AND APPLICATIONS THEREOF
44790.01.2035	BI-2013/073/078.PA1	61/961,980	28-Oct-13	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, SCREENS AND APPLICATIONS THEREOF
44790.00.2065	BI-2013/112.US1	14/463,253	19-Aug-14	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, KNOCKOUT LIBRARIES AND APPLICATIONS THEREOF
44790.99.2065	BI-2013/112.WO1	PCT/US2013/074800	12-Dec-13	FUNCTIONAL GENOMICS USING CRISPR-CAS SYSTEMS, COMPOSITIONS, METHODS, KNOCKOUT LIBRARIES AND APPLICATIONS THEREOF
44790.02.2041	BI-2014/071	14/481,339	9-Sep-14	DELIVERY ENGINEERING, AND OPTIMIZATION OF SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION AND THERAPEUTIC APPLICATIONS