

PCT REQUESTOriginal (for **SUBMISSION**)

0	For receiving Office use only	
0-1	International Application No.	PCT/US18/36084
0-2	International Filing Date	05 JUN 2018 (05.06.18)
0-3	Name of receiving Office and "PCT International Application"	PCT INTERNATIONAL APPLICATION RO/US
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EFS-Web mode] Version 3.51.080.256 MT/FOP 20180101/0.20.5.24
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	739259
I	Title of Invention	METHOD FOR DETERMINING LYMPHOMA TYPE

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Original (for SUBMISSION)

II	Applicant	
II-1	This person is	Applicant only
II-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
II-4	Name	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
II-5	Address	Office of Technology Transfer, National Institutes of Health 6011 Executive Boulevard, Suite 325 MSC 7660 Bethesda, Maryland 20892-7660 United States of America
II-6	State of nationality	US
II-7	State of residence	US

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Original (for SUBMISSION)

III-1	Applicant and/or inventor	
III-1-1	This person is	Applicant only
III-1-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-1-4	Name	BRITISH COLUMBIA CANCER AGENCY BRANCH
III-1-5	Address	600 West 10th Avenue Vancouver, British Columbia V5Z 4E6 Canada
III-1-6	State of nationality	CA
III-1-7	State of residence	CA

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Original (for SUBMISSION)

III-2	Applicant and/or inventor	
III-2-1	This person is	Applicant only
III-2-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-2-4	Name	MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
III-2-5	Address	20 First Street SW Rochester, Minnesota 55905 United States of America
III-2-6	State of nationality	US
III-2-7	State of residence	US

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Original (for SUBMISSION)

III-3	Applicant and/or inventor	
III-3-1	This person is	Applicant only
III-3-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-3-4	Name	JULIUS-MAXIMILIANS-UNIVERSITY OF WÜRZBURG
III-3-5	Address	Sanderring 2 D-97070 Würzburg Germany
III-3-6	State of nationality	DE
III-3-7	State of residence	DE

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Original (for SUBMISSION)

III-4	Applicant and/or inventor	
III-4-1	This person is	Applicant only
III-4-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-4-4	Name	BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA
III-4-5	Address	Varner Hall 3835 Holdege Street Lincoln, Nebraska 68583-0745 United States of America
III-4-6	State of nationality	US
III-4-7	State of residence	US

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Original (for SUBMISSION)

III-5	Applicant and/or inventor	
III-5-1	This person is	Applicant only
III-5-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-5-4	Name	OSLO UNIVERSITY HOSPITAL HF
III-5-5	Address	Tårnbygget, Kirkeveien 166 0450 Oslo Norway
III-5-6	State of nationality	NO
III-5-7	State of residence	NO

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Original (for SUBMISSION)

III-6	Applicant and/or inventor	
III-6-1	This person is	Applicant only
III-6-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-6-4	Name	UNIVERSITY HEALTH NETWORK
III-6-5	Address	190 Elizabeth Street R. Fraser Elliott Building - Room 1S-417 Toronto, Ontario M5G 2C4 Canada
III-6-6	State of nationality	CA
III-6-7	State of residence	CA

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Original (for SUBMISSION)

III-7	Applicant and/or inventor	
III-7-1	This person is	Applicant only
III-7-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-7-4	Name	HOSPITAL CLINIC DE BARCELONA
III-7-5	Address	Villarroel 170 08036 Barcelona Spain
III-7-6	State of nationality	ES
III-7-7	State of residence	ES

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III-8	Applicant and/or inventor	
III-8-1	This person is	Applicant only
III-8-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-8-4	Name	UNIVERSITAT DE BARCELONA
III-8-5	Address	Center de Patents - Centre de Patents - UB, Baldiri Reixac, 4 08028 Barcelona Spain
III-8-6	State of nationality	ES
III-8-7	State of residence	ES

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Original (for SUBMISSION)

III-9	Applicant and/or inventor	
III-9-1	This person is	Applicant only
III-9-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-9-4	Name	INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS)
III-9-5	Address	C. Rosselló, 149-153 08036 Barcelona Spain
III-9-6	State of nationality	ES
III-9-7	State of residence	ES

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Original (for SUBMISSION)

III-10	Applicant and/or inventor	
III-10-1	This person is	Applicant only
III-10-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-10-4	Name	ROBERT BOSCH HEALTHCARE SYSTEMS, INC.
III-10-5	Address	2400 Geng Road, Suite 200 Palo Alto, California 94303 United States of America
III-10-6	State of nationality	US
III-10-7	State of residence	US

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III-11	Applicant and/or inventor	
III-11-1	This person is	Applicant only
III-11-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-11-4	Name	OREGON HEALTH & SCIENCE UNIVERSITY
III-11-5	Address	3181 SW Sam Jackson Park Rd. Portland, Oregon 97239 United States of America
III-11-6	State of nationality	US
III-11-7	State of residence	US

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Original (for SUBMISSION)

III-12	Applicant and/or inventor	
III-12-1	This person is	Applicant only
III-12-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-12-4	Name	CITY OF HOPE
III-12-5	Address	1500 East Duarte Road Duarte, California 91010-3000 United States of America
III-12-6	State of nationality	US
III-12-7	State of residence	US

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Original (for SUBMISSION)

III-13	Applicant and/or inventor	
III-13-1	This person is	Applicant only
III-13-2	Applicant for	AP: (BW GH GM KE LR LS MW MZ NA RW SD SL ST SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ RU TJ TM); EP: (AL AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR); OA: (BF BJ CF CG CI CM GA GN GQ GW KM ML MR NE SN TD TG); AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH&LI CL CN CO CR CU CZ DE DJ DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JO JP KE KG KH KN KP KR KW KZ LA LC LK LR LS LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW
III-13-4	Name	THE CLEVELAND CLINIC FOUNDATION
III-13-5	Address	9500 Euclid Avenue Cleveland, Ohio 44195 United States of America
III-13-6	State of nationality	US
III-13-7	State of residence	US
III-14	Applicant and/or inventor	
III-14-1	This person is	Applicant and inventor
III-14-2	Applicant for	US
III-14-4	Name (LAST, First)	STAUDT, Louis M.
III-14-5	Address	9407 Spruce Tree Circle Bethesda, Maryland 20814 United States of America
III-14-6	State of nationality	US
III-14-7	State of residence	US
III-15	Applicant and/or inventor	
III-15-1	This person is	Applicant and inventor
III-15-2	Applicant for	US
III-15-4	Name (LAST, First)	STEIDL, Christian
III-15-5	Address	1038 Lillooet Road North Vancouver, British Columbia V7J 2H5 Canada
III-15-6	State of nationality	CA
III-15-7	State of residence	CA

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III-16	Applicant and/or inventor	
III-16-1	This person is	Applicant and inventor
III-16-2	Applicant for	US
III-16-4	Name (LAST, First)	MOTTOK, Anja
III-16-5	Address	3869 Ontario Street Vancouver, British Columbia V5V 0C8 Canada
III-16-6	State of nationality	CA
III-16-7	State of residence	CA
III-17	Applicant and/or inventor	
III-17-1	This person is	Applicant and inventor
III-17-2	Applicant for	US
III-17-4	Name (LAST, First)	WRIGHT, George W.
III-17-5	Address	4008 London Terrace Rockville, Maryland 20853 United States of America
III-17-6	State of nationality	US
III-17-7	State of residence	US
III-18	Applicant and/or inventor	
III-18-1	This person is	Applicant and inventor
III-18-2	Applicant for	US
III-18-4	Name (LAST, First)	SCOTT, David William
III-18-5	Address	2355 Larch Street Vancouver, British Columbia V6K 0A2 Canada
III-18-6	State of nationality	CA
III-18-7	State of residence	CA
III-19	Applicant and/or inventor	
III-19-1	This person is	Applicant and inventor
III-19-2	Applicant for	US
III-19-4	Name (LAST, First)	RIMSZA, Lisa M.
III-19-5	Address	6818 E. Montgomery Road Scottsdale, Arizona 85266 United States of America
III-19-6	State of nationality	US
III-19-7	State of residence	US

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III-20	Applicant and/or inventor	
III-20-1	This person is	Applicant and inventor
III-20-2	Applicant for	All designated States
III-20-4	Name (LAST, First)	ROSENWALD, Andreas
III-20-5	Address	Kronbergstrae 14 97078 Würzburg Germany
III-20-6	State of nationality	DE
III-20-7	State of residence	DE
III-21	Applicant and/or inventor	
III-21-1	This person is	Applicant and inventor
III-21-2	Applicant for	All designated States
III-21-4	Name (LAST, First)	GASCOYNE, Randy
III-21-5	Address	#113-245 W. 15th Street North Vancouver, British Columbia V7M 1S3 Canada
III-21-6	State of nationality	CA
III-21-7	State of residence	CA
III-22	Applicant and/or inventor	
III-22-1	This person is	Applicant and inventor
III-22-2	Applicant for	All designated States
III-22-4	Name (LAST, First)	GREINER, Timothy
III-22-5	Address	7345 Stafford Drive Council Bluffs, Iowa 51503 United States of America
III-22-6	State of nationality	US
III-22-7	State of residence	US
III-23	Applicant and/or inventor	
III-23-1	This person is	Applicant and inventor
III-23-2	Applicant for	All designated States
III-23-4	Name (LAST, First)	WEISENBURGER, Dennis
III-23-5	Address	130 Martindale Way Glendora, California 91741 United States of America
III-23-6	State of nationality	US
III-23-7	State of residence	US

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III-24	Applicant and/or inventor	
III-24-1	This person is	Applicant and inventor
III-24-2	Applicant for	All designated States
III-24-4	Name (LAST, First)	SMELAND, Erlend B.
III-24-5	Address	Lochenveien 5A 0286 Oslo Norway
III-24-6	State of nationality	NO
III-24-7	State of residence	NO
III-25	Applicant and/or inventor	
III-25-1	This person is	Applicant and inventor
III-25-2	Applicant for	All designated States
III-25-4	Name (LAST, First)	DELABIE, Jan
III-25-5	Address	32 Gothic Avenue Unit 4 Toronto, Ontario M6P 2V9 Canada
III-25-6	State of nationality	BE
III-25-7	State of residence	CA
III-26	Applicant and/or inventor	
III-26-1	This person is	Applicant and inventor
III-26-2	Applicant for	All designated States
III-26-4	Name (LAST, First)	CAMPO GUERRI, Elias
III-26-5	Address	Avenida Roma 10, 13-2 08036 Barcelona Spain
III-26-6	State of nationality	ES
III-26-7	State of residence	ES
III-27	Applicant and/or inventor	
III-27-1	This person is	Applicant and inventor
III-27-2	Applicant for	All designated States
III-27-4	Name (LAST, First)	OTT, German
III-27-5	Address	Grnwiesenstrae 47 74321 Bietigheim-Bissingen Germany
III-27-6	State of nationality	DE
III-27-7	State of residence	DE

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III-28	Applicant and/or inventor	
III-28-1	This person is	Applicant and inventor
III-28-2	Applicant for	All designated States
III-28-4	Name (LAST, First)	BRAZIEL, Rita
III-28-5	Address	541 Ashdown Circle West Linn, Oregon 97068 United States of America
III-28-6	State of nationality	US
III-28-7	State of residence	US
III-29	Applicant and/or inventor	
III-29-1	This person is	Applicant and inventor
III-29-2	Applicant for	All designated States
III-29-4	Name (LAST, First)	JAFFE, Elaine S.
III-29-5	Address	424 River Bend Road Great Falls, Virginia 22066 United States of America
III-29-6	State of nationality	US
III-29-7	State of residence	US
III-30	Applicant and/or inventor	
III-30-1	This person is	Applicant and inventor
III-30-2	Applicant for	All designated States
III-30-4	Name (LAST, First)	FU, Kai
III-30-5	Address	3878 S. 175th Ave. Omaha, Nebraska 68130 United States of America
III-30-6	State of nationality	US
III-30-7	State of residence	US
III-31	Applicant and/or inventor	
III-31-1	This person is	Applicant and inventor
III-31-2	Applicant for	All designated States
III-31-4	Name (LAST, First)	CHAN, Wing C.
III-31-5	Address	3336 Villa Mesa Road Pasadena, California 91107 United States of America
III-31-6	State of nationality	US
III-31-7	State of residence	US

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III-32	Applicant and/or inventor	
III-32-1	This person is	Applicant and inventor
III-32-2	Applicant for	All designated States
III-32-4	Name (LAST, First)	SONG, Joo
III-32-5	Address	1500 East Duarte Road Duarte, California 91010 United States of America
III-32-6	State of nationality	US
III-32-7	State of residence	US
III-33	Applicant and/or inventor	
III-33-1	This person is	Applicant and inventor
III-33-2	Applicant for	All designated States
III-33-4	Name (LAST, First)	COOK, James R.
III-33-5	Address	2860 Attleboro Road Shaker Heights, Ohio 44120 United States of America
III-33-6	State of nationality	US
III-33-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	Agent
IV-1-1	Name (LAST, First)	SPENNER, Jonathan M.
IV-1-2	Address	Leydig, Voit & Mayer, Ltd. Two Prudential Plaza, Suite 4900 180 North Stetson Avenue Chicago, Illinois 60601 United States of America
IV-1-3	Telephone No.	312-616-5600
IV-1-4	Facsimile No.	312-616-5700
IV-1-5	e-mail	chgpate@leydig.com
IV-1-5(a)	E-mail authorization) The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address, if the Office or Authority so wishes, to send notifications issued in respect of this international application:	exclusively in electronic form (no paper notifications will be sent)
IV-1-6	Agent's registration No.	57,268
IV-2	Additional agent(s)	
IV-2-1	Name(s)	additional agent(s) with same address as first named agent LEYDIG, VOIT & MAYER, LTD.

PCT REQUEST

Original (for SUBMISSION)

V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	14 June 2017 (14.06.2017)
VI-1-2	Number	62/519,728
VI-1-3	Country or Member of WTO	US
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VI-3	Incorporation by reference : where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	—
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	—
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	—
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	—
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	—

PCT REQUESTOriginal (for **SUBMISSION**)

IX	Check list	Number of sheets	Electronic file(s) attached
IX-1	Request (including declaration sheets)	22	✓
IX-2	Description	32	-
IX-3	Claims	3	-
IX-4	Abstract	1	✓
IX-5	Drawings	5	-
IX-6a	Sequence listing part of the description (also to be used for the purposes of international search)	-	✓
IX-7	TOTAL	63	
	Accompanying Items	Paper document(s) attached	Electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-20	Figure of the drawings which should accompany the abstract		
IX-21	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	/Jonathan M. Spenner, Reg. No. 57,268/	
X-1-1	Name (LAST, First)	SPENNER, Jonathan M.	
X-1-3	Capacity (if such capacity is not obvious from reading the request)		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	05 JUN 2018 (05.06.18)
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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