



Ενδεικτικά Αποτελέσματα Αναζήτησης για CORONA VIRUS, SARS, SARS-CoV, COVID-19

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Εφαρμογές 3D-PRINTING και λοιπών Τεχνολογιών για την Καταπολέμηση της Εξάπλωσης της Νόσου COVID-19

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Περιεχόμενα

Ενδεικτικά Αποτελέσματα Αναζήτησης για CORONA VIRUS, SARS, SARS-CoV, COVID-19	3
ΓΕΝΙΚΑ	3
Α. ΓΕΝΙΚΗ ΑΝΑΖΗΤΗΣΗ ΓΙΑ: SARS OR MERS OR CORONAVIRUS OR SARS-CoV-2 OR COVID-19 AND CLASSIFICATIONS A61K OR C12N OR G01	4
Β. ΓΕΝΙΚΗ ΑΝΑΖΗΤΗΣΗ ΓΙΑ: SARS OR MERS OR CORONAVIRUS OR SARS-CoV-2 OR COVID-19 AND CLASSIFICATIONS A61K OR C12N OR G01 AND PD=2020 AND PN=EP	4
ΑΠΟΤΕΛΕΣΜΑΤΑ ΕΡΕΥΝΑΣ ΒΑΣΕΙ ΑΝΑΖΗΤΗΣΗΣ ΓΙΑ MERS, SARS, CORONAVIRUS, SARS-CoV-2 , COVID-19 ΚΑΙ ΤΑΞΙΝΟΜΗΣΕΙΣ A61K OR C12N OR G01 ΚΑΙ ΗΜΕΡ. ΔΗΜΟΣΙΕΥΣΗΣ 2020, ΓΙΑ ΕΡ 8	
Γ. ΕΡΕΥΝΑ ΣΤΗΝ ΒΑΣΗ WP1 ΣΕ ΕΣΤΙΑΣΜΕΝΕΣ ΤΑΞΙΝΟΜΗΣΕΙΣ ΓΙΑ ΚΟΡΩΝΟΪΟΥΣ Ή ΑΝΤΪΪΚΑ ΦΑΡΜΑΚΑ Ή ΔΙΑΓΝΩΣΤΙΚΑ ΤΕΣΤ ΓΙΑ ΗΜΕΡ. ΔΗΜΟΣΙΕΥΣΗΣ ΜΕΤΑ ΤΟ 2002 ΚΑΙ ΓΙΑ ΕΥΡΩΠΑΪΚΑ ΔΕ (ΕΡ)	32
Εφαρμογές 3D-PRINTING και λοιπών τεχνολογιών για την καταπολέμηση της εξάπλωσης της νόσου COVID-19	37
ΣΚΟΠΟΣ ΚΑΙ ΣΤΡΑΤΗΓΙΚΗ ΤΗΣ ΕΡΕΥΝΑΣ	37
ΑΠΟΤΕΛΕΣΜΑΤΑ ΤΗΣ ΕΡΕΥΝΑΣ	38



Ενδεικτικά Αποτελέσματα Αναζήτησης για CORONA VIRUS, SARS, SARS-CoV, COVID-19

ΓΕΝΙΚΑ

Το σοβαρό οξύ αναπνευστικό σύνδρομο (ΣΟΑΣ), γνωστό και ως SARS, (αρκτικόλεξο της αγγλικής ονομασίας severe acute respiratory syndrome) είναι ιογενής νόσος του αναπνευστικού συστήματος, ζωονοσικής προέλευσης, η οποία προκαλείται από τον κορονοϊό του SARS.

(Wikipedia:

https://el.wikipedia.org/wiki/%CE%A3%CE%BF%CE%B2%CE%B1%CF%81%CF%8C_%CE%BF%CE%BE%CF%8D_%CE%B1%CE%BD%CE%B1%CF%80%CE%BD%CE%B5%CF%85%CF%83%CF%84%CE%B9%CE%BA%CF%8C_%CF%83%CF%8D%CE%BD%CE%B4%CF%81%CE%BF%CE%BC%CE%BF).

Η παρούσα πανδημία αφορά τον κορωνοϊό ή κορωνναϊό SARS-CoV-2 και προκαλεί την νόσο COVID-19.

Για τον παραπάνω ιό και νόσο είναι δύσκολο να ανακτηθούν σε αυτή την φάση αιτήσεις ΔΕ διότι αυτές διέπονται από το 18μηνο του απορρήτου των οιονδήποτε προσφάτων αιτήσεων για ΔΕ, που σημαίνει πως οι αιτήσεις αυτές δεν έχουν ακόμα δημοσιευθεί και επομένως δεν υπάρχουν στις βάσεις δεδομένων, στις βάσεις αναζήτησης.

Εν τούτοις, διενεργήθηκαν διάφορες στρατηγικές αναζήτησης, όπως για SARS-CoV, COVID-19 για το 2020, αλλά και για το γενικότερο πλαίσιο των κορωνοϊών, για ταξινομήσεις που αφορούν φαρμακευτικές συνθέσεις (A61K), ιούς (C12N), και μετρήσεις/ελέγχους (testing G01). Στην συνέχεια όμως, λόγω της πληθώρας των αποτελεσμάτων από την γενική αυτή αναζήτηση, έγινε επιπλέον περιορισμός με κριτήρια α) για ημερομηνία δημοσίευσης 2020 και β) για Ευρωπαϊκά ΔΕ (EP).

Τα EP που ανακτήθηκαν από τις παραπάνω αναζητήσεις συσχετίστηκαν κατόπιν με τα ΕΔΕ που έχουν έρθει στον ΟΒΙ.

Τα αποτελέσματα των αναζητήσεων αυτών παρουσιάζονται στους παρακάτω πίνακες.

Οι αναζητήσεις έγιναν στην βάση ελεύθερης πρόσβασης NEW ESPACENET, που δίνει την δυνατότητα αναζήτησης και σε ολόκληρο το έγγραφο καθώς και στη βάση EPOQUE.



A. ΓΕΝΙΚΗ ΑΝΑΖΗΤΗΣΗ ΓΙΑ: SARS OR MERS OR CORONAVIRUS OR SARS-CoV-2 OR COVID-19 AND CLASSIFICATIONS A61K OR C12N OR G01

Η αναζήτηση αυτή έδωσε 35108 αποτελέσματα.

Ακολούθησε περιορισμός των παραπάνω αποτελεσμάτων με την προσθήκη των κριτηρίων για ημερομηνία δημοσίευσης 2020 και για Ευρωπαϊκά ΔΕ (EP), όπως φαίνεται στην αναζήτηση Β παρακάτω.

B. ΓΕΝΙΚΗ ΑΝΑΖΗΤΗΣΗ ΓΙΑ: SARS OR MERS OR CORONAVIRUS OR SARS-CoV-2 OR COVID-19 AND CLASSIFICATIONS A61K OR C12N OR G01 AND PD=2020 AND PN=EP

Από την αναζήτηση αυτή προέκυψαν 92 EP, που όμως είναι αιτήσεις δηλ. Α1 δημοσιεύσεις, τα οποία καταγράφηκαν σε excel αρχείο (ΑΠΟΤΕΛΕΣΜΑΤΑ ΕΡΕΥΝΑΣ ΓΙΑ ΕΔΕ ΒΑΣΕΙ ΑΝΑΖΗΤΗΣΗΣ ΓΙΑ MERS, SARS, CORONAVIRUS, SARS-CoV-2, COVID-19 ΚΑΙ ΤΑΞΙΝΟΜΗΣΕΙΣ A61K OR C12N OR G01 ΚΑΙ ΗΜΕΡ.ΔΗΜΟΣΙΕΥΣΗΣ 2020, ΓΙΑ EP).

Για κάθε μια από τις 92 αιτήσεις EP ανακτήθηκαν από το “published as” πεδίο τα σχετιζόμενα με μια τουλάχιστον κοινή προτεραιότητα χορηγηθέντα EP δηλ. Β δημοσιεύσεις, για τα οποία κατόπιν έγινε αναζήτηση στα αρχεία του OBI και ανακτήθηκαν τα αντίστοιχα ΕΔΕ που έχουν έρθει στον OBI.

Από το σύνολο των 92 αιτήσεων EPA και των EP Β (στο “published as” field) ήρθαν στον OBI 12, όπως φαίνεται παρακάτω.

EP A1orA2	Τίτλος	Published as EP B	ΕΔΕ
EP3613440A1	VARIANT AAV AND COMPOSITIONS, METHODS AND USES FOR GENE TRANSFER TO CELLS, ORGANS AND TISSUES	EP3024498B1	
EP3594340A1	COMPOSITIONS AND METHODS FOR HIGH FIDELITY ASSEMBLY OF NUCLEIC ACIDS	EP2748318B1 EP2944693B1	
EP3603676A1	METHOD OF INCREASING THE FUNCTION OF AN AAV VECTOR	EP1866422B1 EP2359865B1 EP2359866B1 EP2357010B1 EP2359867B1 EP2383346B1	
EP3611269A1	DELIVERY OF SELF-REPLICATING RNA USING BIODEGRADABLE POLYMER PARTICLES	EP2591117B1	
EP3591047A1	PERMIXES TO GENERATE MULTIVIRAL CTLS WITH BROAD SPECIFICITY	EP2812431B1	20190403152/3101386 ΣΕ ΙΣΧΥ
EP3604537A1	DOUBLE-STRANDED RIBONUCLEIC ACID WITH INCREASED EFFECTIVENESS IN AN ORGANISM	EP1633770B1 EP2336317B1	



EP A1orA2	Τίτλος	Published as EP B	ΕΔΕ
EP3603667A1	COMPOSITIONS AND METHODS FOR LIVE, ATTENUATED ALPHAVIRUS FORMULATIONS	EP2968515B1	
EP3603678A2	COLLATERAL GENE INACTIVATION BIOMARKERS AND TARGETS FOR CANCER THERAPY	EP2790738B1	
EP3626274A2	RECOMBINANT PROMOTERS AND VECTORS FOR PROTEIN EXPRESSION IN LIVER AND USE THEREOF	EP3283126B1	
EP3622810A1	METHODS AND COMPOSITIONS FOR EXTENDING SHELF LIFE OF PLANT PRODUCTS	EP2897454B1	
EP3590530A1	ANTIGEN-SPECIFIC T CELL RECEPTORS AND T CELL EPITOPES	EP2618835B1	20170402292/3093321 ΣΕ ΙΣΧΥ
		EP3213765B1	
EP3636259A1	THERAPEUTIC USE OF COMPOUNDS	EP2642990B1	
EP3587455A1	GM-CSF AND IL-4 CONJUGATES, COMPOSITIONS, AND METHODS RELATED THERETO	EP2912069B1	
EP3636669A1	RNA-CODED ANTIBODY	EP2101823B1	
EP3620463A1	PEPTIDE SEQUENCES AND COMPOSITIONS	EP1991563B1	20110403117/3076897 ΜΗ ΙΣΧΥΟΝ
		EP2383284B1	
		EP2383285B1 EP3263589B1	
EP3626817A1	METHODS OF PREPARING ANTI-HUMAN PAPILOMAVIRUS ANTIGEN T CELLS	EP3022294B1	
EP3623361A1	LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS	EP3083556B1	
EP3590529A1	COMBINATION OF VACCINATION AND OX40 AGONISTS	EP3116535B1	
EP3586829A1	INULIN AND INULIN ACETATE FORMULATIONS	EP2804592B1	
EP3610887A1	COMPOSITIONS AND METHODS OF ENHANCING IMMUNE RESPONSES TO EIMERIA OR LIMITING EIMERIA INFECTION	EP2956165B1	
EP3594361A1	COMPOSITIONS AND METHODS FOR THE COLLECTION AND ISOLATION OF NUCLEIC ACIDS FROM BIOLOGICAL SPECIMENS SUSPECTED OF CONTAINING MYCOBACTERIUM TUBERCULOSIS	EP2831284B1	
EP3628687A1	BCMA CHIMERIC ANTIGEN RECEPTORS	EP3230321B1	20190403318/3101588 ΣΕ ΙΣΧΥ
EP3597215A1	COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY	EP2903637B1	



EP A1orA2	Τίτλος	Published as EP B	ΕΔΕ
EP3608308A1	LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS	EP2964608B1	
EP3594337A1	STABILIZATION OF POLY(A) SEQUENCE ENCODING DNA SEQUENCES	EP3167059B1	20190402568/3100973 ΣΕ ΙΣΧΥ
EP3590969A1	ANTIBODIES DIRECTED AGAINST ICOS AND USES THEREOF	EP2691419B1 EP3147297B1	
EP3603661A2	RNA CONTAINING COMPOSITION FOR TREATMENT OF TUMOR DISEASES	EP3173092B1 EP3326641B1	
EP3610924A1	ANTIBODIES AGAINST GLUCOCORTICOID-INDUCED TUMOR NECROSIS FACTOR RECEPTOR (GITR) AND USES THEREOF	EP3151921B1	20190403599/3101952 ΣΕ ΙΣΧΥ
EP3603662A1	COUPLING ENDONUCLEASES WITH END-PROCESSING ENZYMES DRIVE HIGH EFFICIENCY GENE DISRUPTION	EP2680877B1	
EP3604308A1	SUBSTITUTED BICYCLIC DIHYDROPYRIMIDINONES AND THEIR USE AS INHIBITORS OF NEUTROPHIL ELASTASE ACTIVITY	EP3174876B1	
EP3632463A1	IMMUNOGENIC COMPOSITIONS AND METHODS OF USING THE COMPOSITIONS FOR INDUCING HUMORAL AND CELLULAR IMMUNE RESPONSES	EP2694099B1	
EP3608412A2	COMPOSITIONS AND METHODS FOR CONTROLLING LEPTINOTARSA	EP3030663B1	
EP3593820A1	PEG DERIVATIVES CONTAINING TWO PEG CHAINS	EP2644206B1	20190401745/3100190 ΣΕ ΙΣΧΥ
EP3608407A1	OLIGONUCLEOTIDE FOR THE TREATMENT OF MUSCULAR DYSTROPHY PATIENTS	EP2870246B1	
EP3626233A1	PRION-FREE NANOPARTICLE COMPOSITIONS AND METHODS	EP2419732B1	
EP3608022A1	METHODS AND DEVICES FOR HIGH THROUGHPUT PURIFICATION	EP2971279B1	
EP3594348A1	C/EBP ALPHA SHORT ACTIVATING RNA COMPOSITIONS AND METHODS OF USE	EP3071696B1	
EP3626732A1	MACROCYCLIC INHIBITORS OF THE PD-1/PD-L1 AND CD80(B7-1)/PD-L1 PROTEIN/PROTEIN INTERACTIONS	EP2970390B1	20200400142/3102557 ΣΕ ΙΣΧΥ
EP3587451A1	HETERODIMERIC IMMUNOGLOBULINS	EP2922873B1	



EP A1orA2	Τίτλος	Published as EP B	ΕΔΕ
EP3626834A1	SEMI-RANDOM BARCODES FOR NUCLEIC ACID ANALYSIS	EP3169799B1	
EP3636764A1	3' UTR SEQUENCES FOR STABILIZATION OF RNA	EP3337902B1	20190403535/3101821 ΣΕ ΙΣΧΥ
EP3597216A1	HUMAN ANTIBODIES THAT BIND LYMPHOCYTE ACTIVATION GENE-3 (LAG-3) AND USES THEREOF	EP2320940B1	20150401156/3086246 ΣΕ ΙΣΧΥ
		EP2905030B1	20200400256/3102504 ΣΕ ΙΣΧΥ
EP3608021A2	ANALYTE DETECTION DEVICES, MULTIPLEX AND TABLETOP DEVICES FOR DETECTION OF ANALYTES, AND USES THEREOF	EP2668501B1	
EP3623372A1	PYRROLO AND PYRAZOLOPYRIMIDINES AS UBIQUITIN-SPECIFIC PROTEASE 7 INHIBITORS	EP3240791B1	
EP3617226A1	ANTIGEN RECEPTORS AND USES THEREOF	EP3359563B1 EP3359563B8	
EP3594238A1	ANTIBODY COMPOSITIONS FOR TUMOR TREATMENT	EP3119808B1	20190403528/3101835 ΣΕ ΙΣΧΥ
EP3591056A1	MICROORGANISMS AND METHODS FOR PRODUCING 2,4-PENTADIENOATE, BUTADIENE, PROPYLENE, 1,3-BUTANEDOL AND RELATED ALCOHOLS	EP2744906B1	
EP3604532A1	NOVEL CRISPR ENZYMES AND SYSTEMS	EP3009511B1 EP3310917B1 EP3470519B1	
EP3611254A1	MICROORGANISMS AND METHODS FOR THE BIOSYNTHESIS OF HEXAMETHYLENEDIAMINE	EP2427544B1	

Παρακάτω παρατίθεται το σύνολο των 92 αποτελεσμάτων.



ΑΠΟΤΕΛΕΣΜΑΤΑ ΕΡΕΥΝΑΣ ΒΑΣΕΙ ΑΝΑΖΗΤΗΣΗΣ ΓΙΑ MERS, SARS, CORONAVIRUS, SARS-CoV-2 , COVID-19 ΚΑΙ ΤΑΞΙΝΟΜΗΣΕΙΣ A61K OR C12N OR G01 ΚΑΙ ΗΜΕΡ. ΔΗΜΟΣΙΕΥΣΗΣ 2020, ΓΙΑ ΕΡ

No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
1	ACCURATE, RAPID AND CONVENIENT SINGLE-STEP DISEASE DIAGNOSTIC METHOD USING SELF-AMPLIFICATION PRINCIPLE OF DETECTION SIGNAL	KWON JEONG-HYEOK [KR] LEE JEEWON [KR]	CELLEMEDY CO LTD [KR]	EP3611505A1	2017-04-13	G01N33/52 G01N33/536 G01N33/543 G01N33/553 G01N33/569	G01N33/52 (EP,KR) G01N33/536 (EP,KR) G01N33/543 (EP) G01N33/54393 (KR) G01N33/553 (EP,KR) G01N33/569 (EP) G01N33/56983 (KR)	2020-02-19	2018-10-18	063792692
2	ANTIVIRAL COMPOUNDS	CHEVET ERIC [FR] JEAN MICKAEL [FR] VAN DE WEGHE PIERRE [FR] WODRICH HARALD [FR]	CENTRE NAT RECH SCIENT [FR] INST NAT SANTE RECH MED [FR] UNIV BORDEAUX [FR] UNIV RENNES [FR]	EP3628663A1	2018-09-26	A61K31/4164 A61P31/12 C07D233/60	C07D233/60 (EP)	2020-04-01	2020-04-01	063798909
3	COMPOSITIONS, METHODS AND USES FOR ALPHA-1 ANTITRYPSIN FUSION MOLECULES	CRAPO JAMES D [US] DINARELLO CHARLES A [US] KIM SOOHYUN [US]	KONKUK UNIV [KR] OMNI BIO PHARMACEUTICAL INC [US] UNIV COLORADO REGENTS [US]	EP3628327A1	2011-06-24	A61K38/57	A61P13/08 (EP) A61P15/10 (EP) A61P19/06 (EP) A61P29/00 (EP) A61P3/10 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P31/12 (EP) A61P35/00 (EP) A61P37/06 (EP) A61P39/00 (EP) A61P43/00 (EP) A61P9/00 (EP) C07K14/8125 (EP,US) C07K16/40 (US) C12N15/62 (EP,US) A61K38/57 (EP,US) C07K2319/30 (EP,US)	2020-04-01	2012-12-27	047423247
4	METHODS OF TREATING FELINE CORONAVIRUS INFECTIONS	PEDERSEN NIELS C [US] PERRON MICHEL JOSEPH [US]	GILEAD SCIENCES INC [US] UNIV CALIFORNIA [US]	EP3595672A1	2017-03-14	A61K31/706 A61P31/12	A61K31/706 (EP,US) A61P31/12 (EP) A61P31/14 (EP,US)	2020-01-22	2018-09-20	061873933
5	VACCINE PREPARED UTILIZING HUMAN PARAINFLUENZA VIRUS TYPE 2 VECTOR	FUKUMURA MASAYUKI [JP] HARA KEN-ICHIRO [JP] KAWANO MITSUO [JP] NOSAKA TETSUYA [JP] OHTSUKA JUNPEI [JP] TSURUDOME MASATO [JP]	BIOCOMO INC [JP] UNIV MIE [JP]	EP3636755A1	2012-12-26	A61K39/145 A61K39/155 A61K48/00 A61P31/14 A61P31/16 A61P35/00 C12N15/09 C12N7/02 C12N7/04	A61K39/0011 (EP,US) A61K39/12 (EP,US) A61K39/145 (EP,US) A61K39/155 (EP,US) A61P31/14 (EP) A61P31/16 (EP) C12N15/09 (EP,US) C12N15/86 (EP,US) C12N7/00 (US) A61K2039/5252 (EP,US) A61K2039/5256 (EP,US) C07K2319/00 (EP,US) C12N2760/16034 (EP,US) C12N2760/18734 (EP,US) C12N2760/18743 (EP,US) C12N2760/18762 (US) C12N2760/18763 (EP,US) Y02A50/386 (EP) Y02A50/394 (EP) Y02A50/397 (EP)	2020-04-15	2014-07-03	051020425
6	CORONAVIRUSES, VACCINES COMPRISING THE SAME, AND	BAKER SUSAN [US] DENG XUFANG [US] FAABERG KAY [US]	LOYOLA UNIV OF CHICAGO [US] US AGRICULTURE [US]	EP3589731A1	2017-03-03	A61K39/00 A61K39/215 C12N7/00 C12N9/12	A61K39/12 (EP) A61K39/215 (US) A61P31/14 (EP,US) C12N9/16 (EP)	2020-01-08	2018-09-07	063370253



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
	METHODS FOR PREVENTING DISEASE	HACKBART MATTHEW [US] LAGER KELLY MILTON [US] METTELMAN ROBERT [US] MIELECH ANNA [US] O'BRIEN AMORNRAT [US]					A61K2039/5254 (US) C12N2770/20022 (EP) C12N2770/20034 (EP)			
7	VARIANT AAV AND COMPOSITIONS, METHODS AND USES FOR GENE TRANSFER TO CELLS, ORGANS AND TISSUES	ANGUELA XAVIER [US] HIGH KATHERINE A [US] YAZICIOGLU MUSTAFAN [TR]	CHILDRENS HOSPITAL PHILADELPHIA [US]	EP3613440A1	2013-07-22	A61K48/00 C07H21/04 C07K14/015 C12N15/864 C12N7/01	A61K38/36 (RU) A61K48/00 (CN) A61K48/0058 (RU) A61P7/04 (EP,RU) C07K14/005 (EP,CN,US) C07K14/015 (RU) C07K14/745 (RU) C12N15/86 (EP,RU,US) C12N9/6408 (EP,US) C12Y304/21022 (EP,RU,US) A61K38/00 (EP,US) A61K48/0058 (EP,US) C12N2750/14121 (CN) C12N2750/14122 (EP,CN,US) C12N2750/14143 (EP,CN,US) C12N2830/008 (EP,US)	2020-02-26	2015-01-22	052343737
8	COMPOSITIONS AND METHODS FOR HIGH FIDELITY ASSEMBLY OF NUCLEIC ACIDS	JACOBSON JOSEPH [US] LAWTON SCOTT S [US] SCHINDLER DANIEL [US]	GEN9 INC [US]	EP3594340A1	2011-08-26	C12N15/10 C12N15/66 C12P19/34 G16B30/00	C12N15/10 (EP) C12N15/1027 (EP) C12N15/1031 (EP) C12N15/1089 (EP) C12N15/66 (EP) C12P19/34 (EP) G16B30/00 (EP) C12Q2521/301 (EP) C12Q2521/501 (EP) C12N15/10, C12Q2521/301, C12Q2521/501, INV (EP) C12N15/1027, C12Q2521/301, C12Q2521/501, INV (EP)	2020-01-15	2013-03-07	047753449
9	METHOD OF INCREASING THE FUNCTION OF AN AAV VECTOR	GAO GUANGPING [US] VANDENBERGHE LUK [US] WILSON JAMES N [US]	UNIV PENNSYLVANIA [US]	EP3603676A1	2005-04-07	A61K35/76 A61K48/00 C12N15/864 C12N7/00	A61K48/005 (US) A61K48/0091 (EP,CN,US) A61P31/12 (EP) A61P37/00 (EP) A61P43/00 (EP) C07K14/005 (US) C12N15/86 (EP,CN,US) C12N7/00 (US) A61K48/00 (US) C12N2750/14122 (CN,US) C12N2750/14142 (US) C12N2750/14143 (EP,CN,US) C12N2750/14152 (US)	2020-02-05	2006-10-19	036968964
10	DELIVERY OF SELF-REPLICATING RNA USING BIODEGRADABLE POLYMER PARTICLES	JAIN SIDDHARTHA [US] O'HAGAN DEREK [US] SINGH MANMOHAN [US]	GLAXOSMITHKLINE BIOLOGICALS SA [BE]	EP3611269A1	2010-07-06	A61K9/16 A61K9/51 C12N15/86 C12N15/88	A61K39/12 (EP,US) A61K39/155 (US) A61K39/385 (EP,US) A61K9/1617 (EP,US) A61K9/1647 (EP,US) A61K9/5123 (EP,US) A61K9/5153 (EP,US) A61P31/14 (EP)	2020-02-19	2012-01-12	044629115



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C12N15/86 (EP, US) C12N15/88 (EP, US) A61K2039/5256 (EP, US) A61K2039/53 (EP, US) A61K2039/5555 (EP, US) A61K2039/622 (EP, US) C12N2760/18534 (EP, US) C12N2770/36143 (EP, US)			
11	COMPOSITION WITH REDUCED IMMUNOGENICITY	DUVAUX ODILE [FR] SOULLILLOU JEAN-PAUL [FR]	XENOTHERA [FR]	EP3613764A1	2014-10-15	A01K67/027 A61P31/14 C07K16/08 C07K16/12 C07K16/14 C12N9/02 C12N9/10 C12N9/22 C12N9/40	A01K67/0276 (EP, CN, US) A61P31/14 (EP) C07K16/06 (EP, CN, US) C07K16/10 (CN, US) C07K16/44 (EP, CN) C12N9/0071 (EP, CN) C12N9/1048 (EP, CN) C12P21/005 (EP, CN) A01K2217/075 (EP, CN, US) A01K2217/15 (EP, CN) A01K2227/108 (EP, CN, US) A01K2267/01 (US) A01K2267/02 (EP, CN) A61K2039/505 (EP, CN, US) C07K2317/10 (EP, CN, US) C07K2317/20 (EP, CN) C07K2317/41 (EP, CN) C07K2317/734 (EP, CN, US) C12N2760/14111 (EP)	2020-02-26	2016-04-21	051842458
12	METHODS AND COMPOSITIONS FOR WEED CONTROL	TAO NENGBING [US]	MONSANTO TECHNOLOGY LLC [US]	EP3604535A2	2013-03-13	C12N15/113	A01N57/16 (US) A01N65/44 (US) C12N15/113 (US) C12N15/8218 (EP, US) C12N15/8274 (EP, US)	2020-02-05	2014-09-30	051658966
13	PEPMIXES TO GENERATE MULTIVIRAL CTLs WITH BROAD SPECIFICITY	GERDEMANN ULRIKE [US] LEEN ANNE MARIE [US] ROONEY CLIONA M [US] VALDES JUAN FERNANDO VERA [US]	BAYLOR COLLEGE MEDICINE [US]	EP3591047A1	2012-02-09	A01N63/00 C12N15/00	A61K39/12 (EP, US) C12N5/0638 (EP, US) C12N7/00 (US) A61K2039/5158 (EP, US) A61K2039/55527 (EP, US) A61K2039/57 (EP, US) A61K2039/572 (EP, US) A61K2039/577 (US) A61K2039/70 (EP, US) C12N2501/2302 (EP, US) C12N2501/2304 (EP, US) C12N2501/2307 (EP, US) C12N2501/2315 (EP, US) C12N2710/16134 (EP, US) C12N2710/16234 (EP, US) Y02A50/394 (EP) Y02A50/467 (EP)	2020-01-08	2013-08-15	048948057
14	DOUBLE-STRANDED RIBONUCLEIC ACID WITH INCREASED EFFECTIVENESS IN AN ORGANISM	HADWIGER PHILIPP [DE] JOHN MATTHIAS [DE] LIMMER STEFAN [DE] VORNLOCHER	ALNYLAM EUROPE AG [DE]	EP3604537A1	2003-06-13	A61K31/713 C12N15/11 C12N15/113	A61P35/00 (EP) A61P37/00 (EP) A61P5/00 (EP) A61P7/00 (EP) C07H21/02 (GB) C12N15/111 (EP) C12N15/1135 (EP)	2020-02-05	2005-02-17	034139260



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
		HANS-PETER [DE] WOPPMANN CLAUDIA [DE]					C12N15/1137 (EP) C12N2310/14 (EP) C12N2330/30 (EP)			
15	COMPOSITIONS AND METHODS FOR LIVE, ATTENUATED ALPHAVIRUS FORMULATIONS	LIVENGOOD JILL [US] STINCHCOMB DAN [US] VARGA LASZLO [US]	TAKEDA VACCINES INC [US]	EP3603667A1	2013-03-14	A61K39/12	A61K39/12 (EP,US) A61K47/22 (US) A61K47/26 (US) A61K47/42 (US) A61P31/12 (EP) A61P31/14 (EP) A61P37/04 (EP) A61K2039/5254 (EP,US) C12N2770/36134 (EP,US)	2020-02-05	2014-09-18	050489420
16	MICROSCOPIC SUBSTANCE DETECTION METHOD AND DEVICE FOR DETECTING MICROSCOPIC SUBSTANCE	MINAGAWA YOSHIHIRO [JP] NOJI HIROYUKI [JP] ONO TAKAO [JP]	JAPAN SCIENCE & TECH AGENCY [JP]	EP3605110A1	2017-03-29	C12M1/34 C12Q1/06 C12Q1/70 G01N1/00 G01N21/78 G01N33/483 G01N35/08	G01N1/00 (EP) G01N21/78 (EP) G01N33/483 (EP) G01N35/08 (EP) C12M1/34 (EP) C12Q1/06 (EP) C12Q1/70 (EP)	2020-02-05	2018-10-04	063676038
17	COLLATERAL GENE INACTIVATION BIOMARKERS AND TARGETS FOR CANCER THERAPY	AQUILANTI ELISA [US] COLLA SIMONA [US] DEPINHO RONALD [US] FLETCHER-SANANIKONE ELIOT [US] MULLER FLORIAN L [US]	DANA FARBER CANCER INST INC [US] UNIV TEXAS [US]	EP3603678A2	2011-12-14	A61K31/708 8 A61K31/710 5 A61K48/00 A61P35/00	A61K31/191 (EP,US) A61K31/198 (EP,US) A61K31/35 (EP,US) A61K31/352 (EP,US) A61K31/357 (EP,US) A61K31/5685 (EP,US) A61K31/661 (US) A61K31/662 (EP,US) A61K31/713 (EP,US) A61K45/06 (EP,US) A61P35/00 (EP) A61P35/02 (EP) A61P35/04 (EP) A61P43/00 (EP) C12N15/1137 (EP,US) C12Q1/6886 (EP,US) G01N33/5038 (EP,US) G01N33/57407 (EP,US) G01N33/5743 (EP,US) A61K48/00 (US) C12N2310/14 (US) C12N2310/531 (US) C12N2320/31 (EP,US) C12Q2600/106 (EP,US) C12Q2600/156 (US) C12Y402/01001 (EP,US) C12Y402/01011 (EP,US) G01N2333/988 (EP,US) G01N2800/52 (EP,US) A61K31/191, A61K2300/00, INV (EP,US) A61K31/198, A61K2300/00, INV (EP,US) A61K31/35, A61K2300/00, INV (EP,US) A61K31/352, A61K2300/00, INV (EP,US) A61K31/357, A61K2300/00, INV (EP,US) A61K31/5685, A61K2300/00, INV (EP,US) A61K31/662, A61K2300/00, INV (EP,US) A61K31/713,	2020-02-05	2013-06-20	048613367



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							A61K2300/00, INV (EP,US) C12N2310/14, C12N2310/531, ADD (EP,US)			
18	SUBSTANCE THAT PREVENTS ANTIGEN-ANTIBODY REACTION INHIBITION BY BODY FLUID	FUKAI KATSUHIKO [JP] KANNO TORU [JP] MATSUMOTO TAKASHI [JP] MORIOKA KAZUKI [JP] TAKEUCHI ERI [JP] URAYAMA KANA [JP] YAMAKAWA MAKOTO [JP] YOSHIDA KAZUO [JP]	NAT AGRICULTURE & FOOD RES ORG [JP] NH FOODS LTD [JP]	EP3605097A1	2017-03-27	G01N33/543 G01N33/566	G01N33/543 (EP) G01N33/566 (EP)	2020-02-05	2018-10-04	063675878
19	RECOMBINANT PROMOTERS AND VECTORS FOR PROTEIN EXPRESSION IN LIVER AND USE THEREOF	BROWN HARRISON C [US] DOERING CHRISTOPHER B [US] SPENCER TRENT H [US]	CHILDRENS HEALTHCARE OF ATLANTA INC [US] UNIV EMORY [US]	EP3626274A2	2015-04-16	A61K48/00 C07K14/755 C12N9/64	A61K48/0058 (EP,CN,US) A61P7/04 (EP) C07K14/755 (EP,CN,US) C12N15/85 (CN,US) C12N7/00 (CN,US) C12N9/644 (EP,CN) C12Y304/21022 (EP,CN,US) A61K38/00 (EP,CN,US) C12N2750/14132 (CN,US) C12N2750/14143 (CN,US) C12N2830/008 (EP,CN,US)	2020-03-25	2016-10-20	055910372
20	METHODS AND COMPOSITIONS FOR EXTENDING SHELF LIFE OF PLANT PRODUCTS	FEIKERT MICHELE [US] FROMAN BYRON [US] GARVEY GRAEME S [US] KELLY LEO [US] WAYCOTT BILL [US]	SEMINIS VEGETABLE SEEDS INC [US]	EP3622810A1	2012-09-24	A01H15/00 C12N15/11	A01H5/12 (EP,US) A01N57/16 (EP) A01N65/12 (EP,US) A23B7/155 (EP) C12N15/8218 (EP,US) C12N15/825 (EP) C12N15/8266 (EP) C12N9/0059 (EP) C12Q1/686 (US) C12Q1/6895 (US) C12Y110/03001 (EP)	2020-03-18	2014-03-27	050340329
21	PHARMACEUTICAL COMPOSITION COMPRISING ATTENUATED STREPTOCOCCUS PNEUMONIAE STRAINS AND USE THEREOF	KIM BO-GYUNG [KR] RHEE DONG-KWON [KR] SEON SEUNG-HAN [KR]	DOKNIP BIOPHARM CO [KR]	EP3616715A1	2017-04-26	A61K39/00 A61K39/09 A61K39/39 A61K45/06 A61K9/00 A61P11/06 A61P37/08	A61K39/00 (EP) A61K39/09 (EP) A61K39/39 (EP) A61K45/06 (EP) A61K9/00 (EP) A61P11/06 (EP) A61P37/08 (EP)	2020-03-04	2018-11-01	063918473
22	OPTIMIZED HUMAN CLOTTING FACTOR VIII GENE EXPRESSION CASSETTES AND THEIR USE	LI JUAN [US] XIAO XIAO [US] ZHENHUA YUAN [US]	UNIV NORTH CAROLINA CHAPEL HILL [US]	EP3611186A1	2015-02-06	A61K38/37 A61P7/04 C07K14/755 C12N15/12 C12N15/85 C12N5/10 C12P21/02	A61P7/04 (EP) C07K14/755 (EP,US) C12N15/63 (US) A61K38/00 (EP,US)	2020-02-19	2016-08-11	056564743
23	ANTIGEN-SPECIFIC T CELL RECEPTORS AND T CELL EPITOPES	OMOKOKO TANA [DE] SAHIN UGUR [DE] SIMON PETRA [DE] TÜRECI ÖZLEM [DE]	BIONTECH CELL & GENE THERAPIES GMBH [DE] TRON TRANSLATIONALE ONKOLOGIE AN DER UNIV DER JOHANNES GUTENBERG UNIV MAINZ GEMEINNUTZIGE GMBH [DE]	EP3590530A1	2010-09-20	A61K39/00 C07K14/045 C07K14/47 C07K14/705	A61K39/0011 (EP,US) A61K39/12 (EP,US) A61P31/00 (EP) A61P31/22 (EP) A61P35/00 (EP) A61P37/04 (EP) A61P43/00 (EP) C07K14/005 (US) C07K14/4748 (EP,US) C07K14/705 (US) C07K14/70503 (US) C07K14/7051 (EP,US) C12N15/85 (US) C12N5/0636 (US) C12N9/16 (EP,US)	2020-01-08	2012-03-29	045873461



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C12Y301/03048 (EP,US) G01N33/5017 (US) A61K2039/53 (EP,US) A61K2039/57 (US) C12N2510/00 (US) C12N2710/16134 (EP,US) G01N2333/916 (US)			
24	THERAPEUTIC USE OF COMPOUNDS	WALKER MATTHEW [GB] WILLIAMS ROBIN SIMON BROOKE [GB]	UCL BUSINESS LTD [GB]	EP3636259A1	2010-11-26	A61K31/20 A61P25/08	A61K31/20 (EP,US) A61P25/00 (EP) A61P25/04 (EP) A61P25/06 (EP) A61P25/08 (EP) A61P25/14 (EP) A61P25/18 (EP) A61P25/24 (EP) A61P25/28 (EP) A61P31/18 (EP) A61P35/00 (EP) A61P9/10 (EP) A61K31/16 (RU) A61K31/19 (RU) A61K31/192 (RU) A61K31/197 (RU) A61K31/20 (RU)	2020-04-15	2012-05-31	043500742
25	NOVEL POLYGONUM CUSPIDATUM EXTRACTS AND THEIR USE AS PHOTODYNAMIC INACTIVATING AGENTS	MCFARLAND SHERRI [US]	MCFARLAND SHERRI [US] PHOTODYNAMIC INC [CA]	EP3586858A1	2015-10-01	A61K36/704 A61P31/04	A01N63/10 (US) A01N65/30 (EP,US) A61K36/704 (EP,US) A61K41/0057 (EP,US) A61K47/10 (EP,US) A61K47/26 (EP,US) A61K9/0053 (US) A61K9/006 (EP,US) A61K9/06 (EP,US) A61L2/084 (US) A61L2/10 (US) A61L2/16 (US) A61N5/062 (EP,US) A61N5/0624 (EP,US) A61P1/02 (EP) A61P31/04 (EP) A61P31/10 (EP) A61P31/12 (EP) A61P35/00 (EP) A61N2005/0661 (EP,US) A61N2005/0662 (EP,US) A61N2005/0663 (EP,US)	2020-01-01	2017-04-06	058424375
26	LACTOBACILLUS PLANTARUM CILP475 STRAIN HAVING ANTIVIRAL EFFECT AND IMMUNOREGULATORY EFFICACY AND COMPOSITION COMPRISING SAME	JANG YOON TACK [KR] KIM BONG JOON [KR] KIM HEE-YEON [KR] KIM MIN-JEONG [KR] KIM SUNG HUN [KR] LEE KYUNG MIN [KR] MOON HO JIN [KR] WOO SEO HYUNG [KR]	CJ CHEILJEDANG CORP [KR]	EP3620511A1	2018-07-13	A23K10/16 A23L33/135 A61K35/747 A61K8/99 A61P31/12 C12N1/20 C12R1/25	A23K10/16 (EP) A23L33/135 (EP) A61K35/747 (EP) A61K8/99 (EP) A61P31/12 (EP) C12N1/20 (EP) C12R1/25 (EP)	2020-03-11	2020-01-16	069142883
27	HOMEOPATHIC THERAPEUTIC ARNICA COMPOSITIONS AND METHODS	CEARNA INC [US]	POLICH NANCY JOSEPHINE [US]	EP3597205A1	2011-03-03	A61K36/28 A61K41/00	A61K36/00 (EP) A61K36/28 (CN,US) A61K36/45 (US) A61K36/75 (US) A61K41/0004 (EP,CN) A61K9/06 (CN) A61K9/7007 (US) A61P17/02 (EP) A61P19/04 (EP) A61P21/00 (EP) B32B37/144 (US)	2020-01-22	2012-09-06	046753428



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							B32B2250/02 (US) B32B2307/726 (US)			
28	MICROSCOPIC SUBSTANCE ENCAPSULATION METHOD, MICROSCOPIC SUBSTANCE DETECTION METHOD, AND DEVICE FOR DETECTING MICROSCOPIC SUBSTANCE	NOJI HIROYUKI [JP] TABATA KAZUHITO [JP]	JAPAN SCIENCE & TECH AGENCY [JP]	EP3605054A1	2017-03-29	G01N1/00 G01N1/04	G01N1/00 (EP) G01N1/04 (EP)	2020-02-05	2018-10-04	063676222
29	HETEROARYL-PYRAZOLE DERIVATIVE, AND PREPARATION METHOD THEREFOR AND MEDICAL APPLICATION THEREOF	HE FENG [CN] MA DIANQIANG [CN] TAO WEIKANG [CN] YUAN HUIQING [CN] ZHANG GUOBAO [CN]	JIANGSU HENGRUI MEDICINE CO [CN] SHANGHAI HENGRUI PHARMACEUTICAL CO LTD [CN]	EP3636646A1	2017-05-18	A61K31/519 A61K31/537 7 A61K31/551 A61P31/14 A61P31/20 A61P31/22 C07D487/04 C07D519/00	A61K31/519 (EP) A61K31/5377 (EP) A61K31/551 (EP) C07D487/04 (EP) C07D519/00 (EP) A61P31/14 (EP) A61P31/20 (EP) A61P31/22 (EP)	2020-04-15	2018-11-22	064273362
30	DIAGNOSTIC METHODS AND PERSONALISED VACCINES FOR CANCER	MCGRANAHAN NICHOLAS [GB] PEGGS KARL [GB] QUEZADA SERGIO [GB] ROSENTHAL RACHEL [GB] SWANTON CHARLES [GB]	CANCER RESEARCH TECH LTD [GB]	EP3603665A1	2015-04-27	A61K35/15 A61K35/17 A61K39/00 A61K39/395 A61P35/00 C12Q1/68	A61K39/0011 (EP,CN,US) A61P35/00 (EP) A61P37/04 (EP) A61P43/00 (EP) C12N5/0636 (US) C12Q1/6886 (EP,CN,US) G01N33/505 (US) G01N33/57423 (US) G01N33/5743 (US) C12N2501/505 (US) C12N2502/99 (US) C12Q2600/156 (EP,CN,US)	2020-02-05	2016-11-03	055809140
31	CHEMICAL MODIFICATIONS OF MONOMERS AND OLIGONUCLEOTIDES WITH CLICK COMPONENTS FOR CONJUGATION WITH LIGANDS	BUTLER DAVID [US] JAYAPRAKASH K NARAYANANNAIR [US] JAYRAMAN MUTHUSAMY [US] MANOHARAN MUTHIAH [US] MATSUDA SHIGEO [US] PANDEY RAJENDRA K [US] PENG CHANG GENG [US] RAJEEV KALLANTHOTTATHI L G [US] YAMADA TAKESHI [US]	ALNYLAM PHARMACEUTICAL S INC [US]	EP3587434A1	2008-09-23	A61K31/708 8 A61P31/12 C07H21/00	A61K31/713 (EP,US) A61P25/28 (EP) A61P31/04 (EP) A61P31/12 (EP) A61P33/00 (EP) A61P35/00 (EP) A61P37/02 (EP) A61P37/04 (EP) A61P37/06 (EP) A61P37/08 (EP) A61P43/00 (EP) C07H21/00 (EP,US) C12N15/113 (US) H04L65/602 (US) H04L67/36 (US) A61K47/544 (EP,US) A61K47/64 (EP,US) C12N2310/14 (US) C12N2310/141 (US) C12N2310/3513 (US) C12N2310/3515 (US) Y02A50/465 (EP)	2020-01-01	2010-04-08	042038746
32	GM-CSF AND IL-4 CONJUGATES, COMPOSITIONS, AND METHODS RELATED THERETO	DENG JIUSHENG [US] GALIPEAU JACQUES [US]	CHILDRENS HEALTHCARE OF ATLANTA INC [US] UNIV EMORY [US]	EP3587455A1	2012-10-23	A61K38/19 C07K14/535 C07K14/54 C07K19/00	A61K35/14 (US) A61K38/193 (EP,US) A61K38/2026 (EP,US) A61K39/0011 (EP,US) A61K39/39 (EP,US) A61K47/42 (US) A61P31/12 (EP) A61P35/00 (EP) A61P37/04 (EP) C07K14/535 (EP,US) C07K14/5406 (EP,US) A61K2039/5152 (EP,US) A61K2039/5156 (EP,US) A61K2039/55522 (EP,US) A61K2039/55527 (EP,US)	2020-01-01	2014-05-01	050545195



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
33	RNA-CODED ANTIBODY	HOERR INGMAR [DE] PASCOLO STEVE [DE] PROBST JOCHEN [DE]	CUREVAC AG [DE]	EP363669A1	2007-01-09	A61K39/395 C07K16/00 C12N15/00	A61K38/00 (EP,US) C07K2319/00 (EP,US) A61K39/395 (US) A61K39/39558 (US) A61K39/40 (US) A61K39/42 (US) A61K48/005 (US) A61K48/0066 (US) A61K48/0075 (US) A61K9/0019 (US) A61P25/00 (EP) A61P31/00 (EP) A61P33/00 (EP) A61P35/00 (EP) A61P37/00 (EP) A61P9/00 (EP) C07K16/1018 (US) C07K16/1027 (US) C07K16/2803 (US) C07K16/2863 (EP,US) C07K16/2887 (EP,US) C07K16/30 (US) C07K16/3046 (US) C07K16/3061 (US) C07K16/32 (EP,US) A61K2039/505 (US) A61K2039/51 (EP,US) A61K2039/53 (EP,US) A61K48/00 (US) C07K2317/21 (US) C07K2317/24 (EP,US) C07K2317/51 (US) C07K2317/515 (US) C07K2317/52 (US) C07K2317/54 (US) C07K2317/55 (US) C07K2317/56 (EP,US) C07K2317/622 (US) C07K2317/76 (US) C07K2317/77 (US) C07K2317/92 (US) C07K2317/94 (US) Y02A50/388 (EP,US) Y02A50/41 (EP,US) Y02A50/412 (EP,US) Y02A50/487 (EP,US)	2020-04-15	2008-07-10	039427526
34	PEPTIDE SEQUENCES AND COMPOSITIONS	CAPARRÓS-WANDERLEY WILSON ROMERO [GB] STOLOFF GREGORY ALAN [GB]	PEPTCELL LTD [GB]	EP3620463A1	2006-02-07	A61K39/145 C07K14/11	A61K39/12 (EP,US) A61K39/145 (EP,US) A61P31/16 (EP) A61P37/02 (EP) A61P37/06 (EP) C07K14/005 (US) C07K14/11 (EP,US) C07K7/08 (US) A61K2039/55566 (EP,US) A61K2039/57 (EP,US) A61K2039/572 (US) A61K2039/70 (EP,US) C12N2760/16122 (EP,US) C12N2760/16134 (EP,US) C12N2760/16171 (US) C12N2760/16222 (EP,US) C12N2760/16234 (EP,US) C12N2760/16271 (US)	2020-03-11	2007-08-16	038109631
35	METHODS OF PREPARING ANTI-HUMAN PAPILLOMAVIRUS ANTIGEN T CELLS	HINRICHS CHRISTIAN S [US] ROSENBERG STEVEN A [US]	US HEALTH [US]	EP3626817A1	2013-07-15	A61K35/14 A61K35/17 C12N5/0783	A61K35/17 (EP,US) A61K39/12 (US) A61P1/04 (EP) A61P11/04 (EP) A61P15/00 (EP) A61P15/02 (EP)	2020-03-25	2015-01-22	051257632



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							A61P35/00 (EP) C12N5/0636 (EP,RU,US) C12N5/0638 (US) C12N7/00 (US) C12N7/025 (RU) A61K2039/5158 (US) A61K2039/572 (US) A61K2039/585 (US) C12N2501/2302 (US) C12N2502/30 (US) C12N2710/20011 (US)			
36	SYNTHETIC COMBINATORIAL AAV CAPSID LIBRARY FOR TARGETED GENE THERAPY	AGBANDJE-MCKENNA MAVIS [US] MARSIC DAMIEN [US] ZOLOTUKHIN SERGEI [US]	UNIV FLORIDA [US]	EP3633041A2	2013-09-26	C12N15/864 C12N7/00	C07K14/005 (EP,US) C12N15/86 (EP,US) C12N7/00 (US) A61K48/00 (US) C12N2750/14122 (EP,US) C12N2750/14143 (EP,US) C12N2750/14145 (EP,US)	2020-04-08	2015-04-02	052744537
37	LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS	BRITO LUIS [US] CHEN DELAI [US] GAMBER GABRIEL GRANT [US] GEALL ANDREW [US] LOVE KEVIN [US] ZABAWA THOMAS [US] ZECRI FREDERIC [US]	NOVARTIS AG [CH]	EP3623361A1	2013-12-19	A61K31/40 A61K31/44 C07C229/12 C07C229/38 C07D205/04 C07D207/12 C07D207/16 C07D211/22 C07D211/46 C07D211/60 C07D211/62 C07D265/30 C07D295/08 8 C07D295/15	A61K31/7105 (EP,US) A61K31/713 (EP,US) A61K39/12 (EP) A61K39/39 (EP,US) A61K47/18 (EP,US) A61K9/1272 (EP,US) A61K9/5123 (EP,US) C07C219/04 (EP,US) C07C229/12 (EP,US) C07C229/38 (EP,US) C07C271/20 (EP,US) C07C271/22 (US) C07D205/04 (EP,US) C07D207/12 (EP,US) C07D207/16 (EP,US) C07D211/06 (EP,US) C07D211/22 (EP,US) C07D211/34 (EP,US) C07D211/44 (EP,US) C07D211/46 (EP,US) C07D211/60 (EP,US) C07D211/62 (EP,US) C07D265/30 (EP,US) C07D295/088 (EP,US) C07D295/15 (EP,US) A61K2039/53 (EP) A61K2039/55555 (EP) C12N2760/18534 (EP)	2020-03-18	2015-06-25	052469285
38	COMBINATION OF VACCINATION AND OX40 AGONISTS	FOTIN-MLECZEK MARIOLA [DE] KALLEN KARL-JOSEF [DE] SCHMOLLINGER JAN [DE]	CUREVAC AG [DE]	EP3590529A1	2014-03-12	A61K39/00 A61K39/39 A61K39/395 A61P35/00 C07K16/28	A61K39/0011 (EP,US) A61K39/39 (EP,US) A61K39/39558 (EP,US) A61P35/00 (EP) C07K16/2878 (EP,US) C07K16/30 (US) A61K2039/505 (US) A61K2039/53 (EP,US) A61K2039/55516 (US) C07K2319/00 (US) C07K2319/30 (US) Y02A50/403 (EP,US) Y02A50/412 (EP,US) Y02A50/416 (EP,US) Y02A50/466 (EP,US) Y02A50/47 (EP,US) Y02A50/487 (EP,US) Y02A50/489 (EP,US) A61K39/0011, A61K2300/00, INV (EP,US) A61K39/39558, A61K2300/00, INV (EP,US)	2020-01-08	2015-09-17	050478807



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
39	INULIN AND INULIN ACETATE FORMULATIONS	KUMAR SUNNY [US] TUMMALA HEMACHAND [US]	SOUTH DAKOTA STATE UNIV [US]	EP3586829A1	2012-01-20	A61K38/28 A61K39/00 A61K39/39 A61K39/395 A61K9/14 A61K9/16 A61P17/00 A61P37/00	A61K39/39 (EP,US) A61P17/00 (EP) A61P31/10 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P35/00 (EP) A61P37/00 (EP) A61P37/04 (EP) A61P37/06 (EP) A61P37/08 (EP) A61P43/00 (EP) A61K2039/55555 (EP) A61K2039/55583 (EP)	2020-01-01	2013-07-25	048799739
40	COMPOSITION COMPRISING LACTOBACILLUS PLANTARUM CJLP475 STRAIN AND LACTOBACILLUS PLANTARUM CJLP17 STRAIN AND USE THEREOF	BAE GI DUK [KR] JANG YOON TACK [KR] KIM HEE-YEON [KR] KIM SUNG HUN [KR] LEE KYUNG MIN [KR] MOON HO JIN [KR] WOO SEO HYUNG [KR]	CJ CHEILJEDANG CORP [KR]	EP3620512A1	2018-07-13	A23K10/16 A61K35/747 A61K47/26 A61K47/36 A61P31/14 C12N1/04 C12N1/20 C12R1/25	A23K10/16 (EP) A61K35/747 (EP) A61K47/26 (EP) A61K47/36 (EP) A61P31/14 (EP) C12N1/04 (EP) C12N1/20 (EP) C12R1/25 (EP)	2020-03-11	2020-01-16	069143033
41	COMPOSITION COMPRISING LACTOBACILLUS PLANTARUM CJLP475 AND LACTOBACILLUS PLANTARUM CJLP243 STRAINS, AND USE THEREOF	BAE GI DUK [KR] JANG YOON TACK [KR] KIM BONG JOON [KR] KIM HEE-YEON [KR] KIM SUNG HUN [KR] LEE KYUNG MIN [KR] MOON HO JIN [KR] SON KYU YEOL [KR]	CJ CHEILJEDANG CORP [KR]	EP3620513A1	2018-07-13	A23K10/16 A23L33/135 A61K35/747 A61K8/99 A61P31/14 C12N1/20 C12R1/25	A23K10/16 (EP) A23L33/135 (EP) A61K35/747 (EP) A61K8/99 (EP) A61P31/14 (EP) C12N1/20 (EP) C12R1/25 (EP)	2020-03-11	2020-01-16	069143036
42	COMPOSITIONS AND METHODS OF ENHANCING IMMUNE RESPONSES TO EIMERIA OR LIMITING EIMERIA INFECTION	BARTA JOHN R [CA] BERGHMAN LUC [US] BIELKE LISA [US] FAULKNER OLIVIA B [US] HARGIS BILLY [US] SHIVARAMAIAH SRICHAITANYA [IN]	TEXAS A & M UNIV SYS [US] UNIV ARKANSAS [US]	EP3610887A1	2013-02-14	A61K39/002 A61K39/012 A61P31/04 C12N15/00	A61K39/002 (US) A61K39/012 (EP,US) A61K39/015 (US) A61P31/04 (EP) C07K14/445 (EP,US) A61K2039/523 (US) A61K2039/53 (EP,US) A61K2039/542 (EP,US) A61K2039/55 (US) A61K2039/552 (US) A61K2039/55583 (EP,US)	2020-02-19	2014-08-21	051354559
43	COMPOSITIONS AND METHODS FOR THE COLLECTION AND ISOLATION OF NUCLEIC ACIDS FROM BIOLOGICAL SPECIMENS SUSPECTED OF CONTAINING MYCOBACTERIUM TUBERCULOSIS	DAUM LUKE [US] FISCHER GERALD [US]	LONGHORN VACCINES & DIAGNOSTICS LLC [US]	EP3594361A1	2007-10-01	C07H21/00 C12M1/33 C12N15/10 C12Q1/68 G01N33/566	C12N15/1003 (EP,CN,US) C12Q1/6806 (EP,CN,US) C12Q1/6888 (US) C12Q1/6806, C12Q2523/113, C12Q2523/308, INV (EP,CN)	2020-01-15	2013-10-03	049235530
44	BCMA CHIMERIC ANTIGEN RECEPTORS	FRIEDMAN KEVIN [US] MORGAN RICHARD [US]	BLUEBIRD BIO INC [US]	EP3628687A1	2014-12-12	A61K39/00 A61K48/00 C07K14/005 C07K16/28 C12N15/62	A61K35/17 (KR) A61K39/0011 (US) A61P1/02 (EP) A61P13/12 (EP) A61P17/02 (EP) A61P19/02 (EP) A61P21/04 (EP) A61P25/00 (EP) A61P27/02 (EP) A61P29/00 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/02 (EP) A61P37/06 (EP) A61P43/00 (EP) A61P7/00 (EP) A61P7/04 (EP) A61P7/06 (EP) A61P9/00 (EP)	2020-04-01	2016-06-16	056108356



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C07K14/7051 (EP,KR,US) C07K14/70517 (US) C07K14/70578 (US) C07K16/2878 (EP,KR,US) C12N15/86 (US) C12N5/0636 (US) A61K2039/5156 (EP,KR,US) A61K2039/5158 (US) A61K2039/585 (EP,KR,US) C07K2317/622 (EP,KR,US) C07K2319/32 (EP,KR,US) C12N2740/15043 (US) C12N2830/15 (US)			
45	SITE-SPECIFIC DELIVERY OF NUCLEIC ACIDS BY COMBINING TARGETING LIGANDS WITH ENDOSOMOLYTIC COMPONENTS	BUTLER DAVID [US] JAYARAMAN MUTHUSAMY [US] MANOHARAN MUTHIAH [US] MATSUDA SHIGEO [US] NARAYANANNAIR JAYAPRAKASH K [US] RAJEEV KALLANTHOTTATHI L G [US]	ARBUTUS BIOPHARMA CORP [CA]	EP3604533A1	2008-04-11	A61K31/713 A61K47/55 C12N15/11 C12N15/113 C12N15/87 A61K48/00 C07H21/00	A61K47/545 (EP,US) A61K47/549 (EP,US) A61K47/551 (EP,US) A61K47/554 (EP,US) A61K48/0008 (EP,US) A61P1/04 (EP) A61P1/16 (EP) A61P11/06 (EP) A61P17/06 (EP) A61P19/00 (EP) A61P19/02 (EP) A61P25/00 (EP) A61P25/04 (EP) A61P25/14 (EP) A61P25/16 (EP) A61P25/28 (EP) A61P29/00 (EP) A61P3/10 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P31/06 (EP) A61P31/08 (EP) A61P31/10 (EP) A61P31/12 (EP) A61P31/14 (EP) A61P31/18 (EP) A61P31/20 (EP) A61P31/22 (EP) A61P33/00 (EP) A61P33/06 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/00 (EP) A61P37/06 (EP) A61P43/00 (EP) A61P9/00 (EP) A61P9/10 (EP) C12N15/111 (EP,US) C12N15/1137 (US) C12N15/87 (EP,US) C12Y304/21021 (EP,US) C12N2310/11 (EP,US) C12N2310/14 (EP,US) C12N2310/315 (EP,US) C12N2310/322 (EP,US) C12N2310/346 (EP,US) C12N2310/351 (EP,US) C12N2310/3513 (EP,US) C12N2320/32 (EP,US)	2020-02-05	2009-10-15	041162667



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
46	COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY	KLOSS CHRISTOPHER C [US] SADELAIN MICHEL [US]	MEMORIAL SLOAN KETTERING CANCER CENTER [US]	EP3597215A1	2012-10-02	A61K39/00 C07K14/35 C07K14/705 C07K16/28 C12N15/85	A61K35/15 (EP,IL) A61K35/17 (EP,IL,US) A61K39/0011 (IL,US) A61P13/08 (EP) A61P15/08 (EP) A61P15/14 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/02 (EP) A61P37/04 (EP) C07K14/705 (IL,US) C07K14/70503 (EP,IL) C07K14/7051 (EP,IL,US) C07K14/70517 (EP,IL) C07K14/70521 (EP,IL) C07K14/70578 (EP,IL) C07K16/2803 (EP) C07K16/2809 (EP) C07K16/3069 (EP) C12N5/0638 (IL,US) C12N9/2402 (EP) A61K2039/5156 (EP) C07K2317/31 (EP) C07K2317/622 (EP) C07K2317/74 (EP) C07K2317/92 (EP) C07K2319/33 (EP) C07K2319/74 (EP) C12N2510/00 (IL,US) C12N2999/002 (EP)	2020-01-22	2014-04-10	050435409
47	LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS	BARYZA JEREMY LEE [US] BECKWITH ROHAN ERIC JOHN [US] BOWMAN KEITH [US] BYERS CRYSTAL [US] FAZAL TANZINA [US] GAMBER GABRIEL GRANT [US] LEE CAMERON CHUCK-MUNN [US] TICHKULE RITESH BHANUDASJI [US] VARGESE CHANDRA [US] WANG SHUANGXI [US] WEST LAURA [US] ZABAWA THOMAS [US] ZHAO JUNPING [US]	NOVARTIS AG [CH]	EP3608308A1	2013-03-08	A61K31/137 A61K31/713 A61K38/22 A61K47/18 A61K9/00 A61K9/127 A61K9/51 C07C205/04 C07C217/58 C07C219/06 C07C229/12	A61K31/713 (EP,CN,US) A61K38/2264 (EP,CN,US) A61K47/18 (EP,CN,US) A61K9/0019 (EP,CN,US) A61K47/22 (CN,US) A61K9/0019 (EP,CN,US) A61K9/1272 (EP,CN,US) A61K9/5123 (EP,CN,US) A61P11/00 (EP) A61P11/02 (EP) A61P11/06 (EP) A61P11/16 (EP) A61P17/00 (EP) A61P17/06 (EP) A61P17/14 (EP) A61P19/02 (EP) A61P21/00 (EP) A61P21/04 (EP) A61P25/00 (EP) A61P25/08 (EP) A61P25/14 (EP) A61P25/28 (EP) A61P27/02 (EP) A61P27/06 (EP) A61P27/16 (EP) A61P29/00 (EP) A61P3/00 (EP) A61P3/04 (EP) A61P3/10 (EP) A61P31/04 (EP) A61P31/10 (EP) A61P31/12 (EP) A61P33/00 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/02 (EP) A61P37/06 (EP) A61P37/08 (EP) A61P43/00 (EP) A61P7/06 (EP) A61P9/00 (EP)	2020-02-12	2014-09-12	050391230



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							A61P9/04 (EP) A61P9/06 (EP) A61P9/10 (EP) A61P9/12 (EP) C07C217/58 (EP,CN,US) C07C219/06 (EP,CN,US) C07C229/12 (EP,CN,US) C07C229/14 (CN,US) C07C235/42 (CN,US) C07D205/04 (EP,CN,US) C07D213/69 (EP,CN,US) C07D213/79 (EP,CN,US) C07D295/096 (EP,CN,US) C07D317/28 (EP,CN,US) C12N15/113 (CN,US) A61K48/00 (CN,US) C12N2310/14 (CN,US) C12N2320/32 (CN,US)			
48	ADAPTIVE LASER-BEAM SHAPING	BOEGLI CHARLES [CH] KRATSCH ALEXANDER [CH] LUSTENBERGER FELIX [CH] WEISSMANTEL STEFFEN [CH]	BOEGLI GRAVURES SA [CH]	EP3620763A1	2018-09-07	G01J1/04 G01J1/42	G01J1/0411 (EP) G01J1/0414 (EP) G01J1/0444 (EP) G01J1/4257 (EP)	2020-03-11	2020-03-11	063528648
49	REAGENT FOR EXTRACTING AND AMPLIFYING NUCLEIC ACID	SATO HIROSHI [JP]	TOSOH CORP [JP]	EP3597745A1	2017-03-13	C12N15/09 C12Q1/6806	C12N15/09 (EP) C12Q1/6806 (EP)	2020-01-22	2018-09-20	063522222
50	STABILIZATION OF POLY(A) SEQUENCE ENCODING DNA SEQUENCES	DIKEN MUSTAFA [DE] EBERLE FLORIAN [DE] KUHN ANDREAS [DE] SAHIN UGUR [DE] VALLAZZA BRITTA [DE]	BIONTECH RNA PHARMACEUTICALS GMBH [DE] TRON TRANSLATIONALE ONKOLOGIE AN DER UNIV DER JOHANNES GUTENBERG UNIV MAINZ GEMEINNUETZIGE GMBH [DE]	EP3594337A1	2014-07-11	C12N15/09 C12N15/67 C12N15/68	A61K39/00 (US) A61K48/0066 (US) C12N15/67 (EP) C12N15/68 (EP,US) C12N15/70 (EP,US) C12N15/85 (US) C12P19/34 (US) C12P21/00 (US) A61K2039/53 (US) C12N2830/50 (US)	2020-01-15	2016-01-14	051220548
51	ANTIBODIES DIRECTED AGAINST ICOS AND USES THEREOF	CAUX CHRISTOPHE [FR] FAGET JULIEN [FR] MENETRIER-CAUX CHRISTINE [FR] NUNES JACQUES [FR] OLIVE DANIEL [FR]	CENTRE LEON BERARD [FR] INST JEAN PAOLI & IRENE CALMETTES [FR] INST NAT SANTE RECH MED [FR] UNIV CLAUDE BERNARD LYON [FR] UNIV DAIX MARSEILLE [FR]	EP3590969A1	2011-03-31	A61K39/00 C07K16/28 G01N33/569 G01N33/574	A61K39/3955 (US) A61P1/04 (EP) A61P11/02 (EP) A61P11/04 (EP) A61P11/06 (EP) A61P17/00 (EP) A61P17/02 (EP) A61P17/06 (EP) A61P19/02 (EP) A61P25/00 (EP) A61P29/00 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P31/12 (EP) A61P35/00 (EP) A61P37/00 (EP) A61P37/02 (EP) A61P37/06 (EP) C07K16/28 (KR,US) C07K16/2818 (EP,KR,US) G01N33/56972 (KR,US) G01N33/57415 (KR,US) A61K2039/505 (KR,US)	2020-01-08	2012-10-04	044475056



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C07K2317/565 (KR,US) C07K2317/75 (EP,KR,US) C07K2317/76 (EP,KR,US) C07K2317/92 (KR,US)			
52	RNA CONTAINING COMPOSITION FOR TREATMENT OF TUMOR DISEASES	BAUMHOF PATRICK [DE] FOTIN-MLECZEK MARIOLA [DE] HEIDENREICH REGINA [DE] KALLEN KARL-JOSEF [DE] KOWALCZYK ALEKSANDRA [DE] PROBST JOCHEN [DE]	CUREVAC AG [DE]	EP3603661A2	2015-04-22	A61K38/19 A61K38/20 A61K39/00 A61P35/00 C07K14/52 C12N15/113 C12N15/117	A61K31/7088 (CN) A61K31/7105 (EP) A61K31/713 (EP) A61K38/177 (EP,CN,US) A61K38/1774 (EP,CN,US) A61K38/19 (EP,CN,US) A61K38/20 (CN) A61K38/208 (EP,US) A61K39/0011 (CN) A61K39/12 (EP,US) A61K39/145 (US) A61K39/39 (EP,US) A61K39/3955 (EP,US) A61K39/39558 (CN,US) A61K45/06 (CN,US) A61K48/0041 (US) A61K48/005 (CN,US) A61K9/0019 (CN,US) A61P35/00 (EP) A61P43/00 (EP) C07K16/2818 (EP,US) C07K16/2878 (US) C07K16/2896 (EP,US) C07K16/30 (US) C07K16/34 (EP,US) C12N15/117 (US) C12N7/00 (US) A61K2039/53 (EP,CN,US) A61K2039/54 (EP,CN,US) A61K2039/55511 (EP,CN,US) A61K2039/55522 (EP,CN,US) A61K2039/55538 (EP,CN,US) A61K2039/55561 (EP,US) A61K2039/585 (EP,CN,US) C07K2317/75 (US) C07K2317/76 (US) C12N2310/17 (US) C12N2320/30 (US) C12N2760/16034 (US) C12N2760/16134 (EP,US) Y02A50/386 (EP,US) Y02A50/388 (EP,US) Y02A50/39 (EP,US) Y02A50/394 (EP,US) Y02A50/397 (EP,US) A61K31/7088, A61K2300/00, INV (CN) A61K38/177, A61K2300/00, INV (CN) A61K38/1774, A61K2300/00, INV (CN) A61K38/19, A61K2300/00, INV (CN)	2020-02-05	2016-10-27	053005455



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							A61K38/20, A61K2300/00, INV (CN) A61K39/0011, A61K2300/00, INV (CN) A61K39/3955, A61K2300/00, INV (EP,US) A61K39/39558, A61K2300/00, INV (CN)			
53	IMMUNODOMINANT PROTEINS AND FRAGMENTS IN MULTIPLE SCLEROSIS	MARTIN ROLAND [CH] SOSPEDRA RAMOS MIREIA [CH]	UNIV ZUERICH [CH]	EP3586866A1	2018-06-28	A61K38/17 A61K38/44 A61P37/06	A61K38/1709 (EP) A61K38/443 (EP) A61P37/06 (EP)	2020-01-01	2020-01-01	062814962
54	ANTIBODIES AGAINST GLUCOCORTICOID-INDUCED TUMOR NECROSIS FACTOR RECEPTOR (GITR) AND USES THEREOF	CHAKRABORTY INDRANI [US] CHEN GUODONG [US] HAN MICHELLE MINHUA [US] HENNING KARLA [US] HUANG HAICHUN [US] HUANG RICHARD [US] KORMAN ALAN J [US] LI HUIMING [US] LONBERG NILS [US] SELBY MARK J [US] SRINIVASAN MOHAN [US] WANG CHANGYU [US] WONG SUSAN [US]	SQUIBB BRISTOL MYERS CO [US]	EP3610924A1	2014-06-06	A61K39/00 A61P35/00 C07K16/28	A61K39/3955 (CN,KR,US) A61K47/48569 (US) A61P35/00 (EP) C07K16/2818 (EP,CN,KR,US) C07K16/2863 (CN,KR,US) C07K16/2878 (EP,CN,KR,US) C12N5/0636 (KR) G01N33/57492 (CN,KR,US) G01N33/6863 (EP,US) G01N33/6872 (CN,KR,US) A61K2039/505 (EP,CN,KR,US) A61K2039/507 (EP,CN,US) A61K47/6851 (EP,US) C07K2317/21 (EP,US) C07K2317/24 (US) C07K2317/33 (EP,US) C07K2317/34 (EP,US) C07K2317/52 (EP,KR,US) C07K2317/53 (EP,US) C07K2317/56 (CN,US) C07K2317/565 (EP,KR,US) C07K2317/73 (CN,US) C07K2317/732 (EP,CN,US) C07K2317/74 (EP,CN,US) C07K2317/75 (EP,CN,US) C07K2317/76 (EP,CN,US) C07K2317/92 (EP,CN,US) G01N2333/70578 (CN,KR,US) G01N2333/7151 (EP,US)	2020-02-19	2015-12-10	053761479
55	COUPLING ENDONUCLEASES WITH END-PROCESSING ENZYMES DRIVE HIGH EFFICIENCY GENE DISRUPTION	CERTO MICHAEL T [US] GWIAZDA KAMILA SABINA [US] SCHARENBERG ANDREW M [US]	SEATTLE CHILDRENS RES INSTITUTE [US]	EP3603662A1	2011-02-28	A61K38/45 A61K38/46 A61K38/52 C12N15/62 C12N9/12 C12N9/22 C12N9/90	A61K35/28 (US) A61K38/45 (EP,US) A61K38/465 (EP,US) A61K38/52 (EP,US) A61K9/0019 (US) A61P31/18 (EP) A61P37/02 (EP) C12N15/102 (EP,US) C12N15/62 (EP,US) C12N9/1252 (EP,US) C12N9/22 (EP,US) C12N9/90 (EP,US) A61K2035/124 (US) C07K2319/60 (EP,US) C12N2800/80 (US)	2020-02-05	2012-09-07	046758436



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C12N2840/203 (US) A61K38/45, A61K2300/00, INV (EP,US) A61K38/465, A61K2300/00, INV (EP,US) A61K38/52, A61K2300/00, INV (EP,US)			
56	SUBSTITUTED BICYCLIC DIHYDROPYRIMIDINONES AND THEIR USE AS INHIBITORS OF NEUTROPHIL ELASTASE ACTIVITY	ANDERSKEWITZ RALF [DE] GNAMM CHRISTIAN [DE] HOESCH HOLGER [DE] MORSCHHAEUSER GERD [DE] OOST THORSTEN [DE] PETERS STEFAN [DE] RIES UWE JOERG [DE]	BOEHRINGER INGELHEIM INT [DE]	EP3604308A1	2014-07-31	A61K31/517 A61K45/06 A61P43/00 A61P9/10 C07D471/04	A61K31/517 (EP) A61K45/06 (EP) A61P43/00 (EP) A61P9/10 (EP) C07D471/04 (EP,US)	2020-02-05	2016-02-04	051257377
57	IMMUNOGENIC COMPOSITIONS AND METHODS OF USING THE COMPOSITIONS FOR INDUCING HUMORAL AND CELLULAR IMMUNE RESPONSES	DUBENSKY THOMAS W [US] ROBBINS SCOTT H [US]	IMMUNE DESIGN CORP [US]	EP3632463A1	2011-04-08	A61K39/00	A61K39/0011 (EP,US) A61K39/12 (EP,US) A61K39/245 (US) A61K39/39 (US) A61P31/04 (EP) A61P31/10 (EP) A61P31/12 (EP) A61P31/22 (EP) A61P33/00 (EP) A61P35/00 (EP) A61P37/04 (EP) A61P43/00 (EP) A61K2039/53 (EP,US) A61K2039/545 (EP,US) A61K2039/55566 (EP,US) A61K2039/55572 (EP,US) A61K2039/70 (US) C12N2710/16634 (EP,US) C12N2740/15034 (EP,US) C12N2740/16043 (EP,US) C12N2810/609 (EP,US)	2020-04-08	2012-10-18	045952669
58	ANTICANCER COMPOSITIONS CONTAINING MIRNA MIMICS AND USES THEREOF	LATORRE LOZANO ALFONSO [ES] MILÁN ROIS PAULA [ES] SOMOZA CALATRAVA ÁLVARO [ES]	FUND IMDEA NANOCIENCIA [ES]	EP3626820A1	2018-09-20	C12N15/113	C12N15/113 (EP) C12N2310/141 (EP) C12N2320/31 (EP)	2020-03-25	2020-03-25	063794422
59	COMPOSITIONS AND METHODS FOR CONTROLLING LEPTINOTARSA	BEATTIE JODI LYNN [US] CRAWFORD MICHAEL JOHN [US] EADS BRIAN DONOVAN [US] FLAGEL LEX EVAN [US] KAPOOR MAHAK [US] TAYLOR CHRISTINA MARIE [US]	MONSANTO TECHNOLOGY LLC [US]	EP3608412A2	2013-07-19	C07K14/435 C12N15/82	A01N57/16 (RU) C07K14/43563 (EP,RU) C12N15/113 (RU,US) C12N15/8218 (EP,RU) C12N15/8286 (EP,RU,US) C12N2310/14 (US) Y02A40/162 (EP,US)	2020-02-12	2015-01-22	051263577
60	PEG DERIVATIVES CONTAINING TWO PEG CHAINS	BENTLEY MICHAEL D [US] CHARLES STEPHEN A [US] HARRIS MILTON J	NEKTAR THERAPEUTICS [US]	EP3593820A1	2003-05-23	A61K47/48 A61K47/60 C08G65/329 C08G65/333	A61K47/50 (KR) A61K47/60 (EP) A61P35/00 (EP) C08G65/00 (KR) C08G65/329 (EP,KR)	2020-01-15	2005-01-06	033551443



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
		[US] KOZLOWSKI ANTONI [US] MCMANUS SAMUEL P [US]					C08G65/333 (KR) C08G65/33337 (EP) C08G65/33344 (EP)			
61	OLIGONUCLEOTIDE FOR THE TREATMENT OF MUSCULAR DYSTROPHY PATIENTS	VAN DEUTEKOM JUDITH CHRISTINA THEODORA [NL]	BIOMARIN TECH BV [NL]	EP3608407A1	2012-07-03	A61K31/708 8 A61K48/00 C12N15/113 C12N9/00 A61P21/00 C07H21/00 C12Q1/68	A61K48/00 (RU) A61P21/00 (EP) A61P21/04 (EP) C12N15/113 (EP,RU,US) C12N2310/11 (EP,US) C12N2310/31 (EP) C12N2310/32 (EP) C12N2310/33 (EP) C12N2310/346 (EP) C12N2310/351 (EP) C12N2320/33 (EP)	2020-02-12	2014-01-09	049882554
62	BISPECIFIC MULTIVALENT FUSION PROTEINS	CHEN WEIZAO [US] DIMITROV DIMITER S [US] YING TIANLEI [CN]	UNIV FUDAN [CN] US HEALTH [US]	EP3590961A1	2015-03-25	A61K38/00 A61K38/16 A61K38/17 A61K39/00 A61P31/18 C07K14/435 C07K14/73 C07K16/10	A61K47/6803 (US) A61P31/18 (EP,US) C07K14/70514 (EP,US) C07K16/1063 (EP,US) A61K2039/505 (EP,US) A61K38/00 (EP,US) C07K2317/14 (EP,US) C07K2317/21 (EP,US) C07K2317/31 (EP,US) C07K2317/35 (US) C07K2317/41 (EP,US) C07K2317/515 (EP,US) C07K2317/522 (EP,US) C07K2317/526 (EP,US) C07K2317/53 (US) C07K2317/569 (EP,US) C07K2317/72 (EP,US) C07K2317/732 (EP,US) C07K2317/76 (EP,US) C07K2317/90 (EP,US) C07K2317/92 (EP,US) C07K2317/94 (EP,US) C07K2319/00 (EP,US) C07K2319/30 (EP,US) C07K2319/32 (EP,US) C07K2319/33 (EP,US)	2020-01-08	2016-09-29	055085917
63	PRION-FREE NANOPARTICLE COMPOSITIONS AND METHODS	DESAI NEIL P [US] PEYKOV VIKTOR [US] SOON-SHIONG PATRICK [US]	ABRAXIS BIOSCIENCE LLC [US]	EP3626233A1	2009-04-15	A61K31/337 A61K47/42 A61K9/16 A61K9/51 B82Y5/00 G01N33/68	A61K31/337 (EP,KR,US) A61K38/385 (KR) A61K47/42 (EP,KR,US) A61K9/1658 (EP,KR,US) A61K9/5169 (EP,KR,US) A61P31/12 (EP) A61P35/00 (EP) B82Y5/00 (EP,KR,US) G01N33/6896 (EP,KR,US) G01N2800/2828 (EP,KR,US) Y10S210/905 (EP,US) Y10S977/773 (EP,US) Y10S977/906 (EP,US)	2020-03-25	2010-10-21	042982852
64	VACCINE ADJUVANT FORMULATION	FUKUSHIMA AKIHISA [JP]	SUMITOMO DAINIPPON PHARMA CO LTD [JP]	EP3603619A1	2017-03-29	A61K31/505 A61K39/00 A61K39/39 A61K45/00 A61K47/06 A61K47/24 A61K47/28 A61K47/54	A61K31/505 (EP) A61K39/00 (EP) A61K39/39 (EP) A61K45/00 (EP) A61K47/06 (EP) A61K47/24 (EP) A61K47/28 (EP) A61K47/54 (EP)	2020-02-05	2018-10-04	063675951



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
						A61K47/69 A61K9/127 A61P31/00 A61P35/00 A61P37/04	A61K47/69 (EP) A61K9/127 (EP) A61P31/00 (EP) A61P35/00 (EP) A61P37/04 (EP)			
65	METHOD FOR INDUCING EXON SKIPPING BY GENOME EDITING	HOTTA AKITSU [JP] LI HONGMEI [JP] SASAKAWA NORIKO [JP]	UNIV KYOTO [JP]	EP3617311A1	2017-03-30	C12N15/09	C12N15/09 (EP)	2020-03-04	2018-10-04	063674780
66	METHODS AND DEVICES FOR HIGH THROUGHPUT PURIFICATION	AUSTIN ROBERT H [US] CHEN YU [US] CIVIN CURT I [US] D'SILVA JOSEPH [US] STURM JAMES C [US]	UNIV MARYLAND [US] UNIV PRINCETON [US]	EP3608022A1	2013-03-15	B01L3/00 G01N27/447 G01N33/50	A61K35/14 (US) A61K35/28 (US) B01L3/502753 (EP,US) B01L3/502761 (EP,US) G01N1/34 (US) G01N15/1404 (EP,US) G01N33/5094 (EP,US) B01L2200/0652 (EP,US) B01L2300/0816 (EP,US) B01L2300/0864 (EP,US) B01L2300/0867 (EP,US) B01L2300/1894 (EP,US) B01L2400/086 (EP,US) G01N2015/008 (EP,US) G01N2015/1006 (EP,US) G01N2015/1493 (EP,US) G01N2333/70596 (EP,US)	2020-02-12	2014-09-18	051538409
67	C/EBP ALPHA SHORT ACTIVATING RNA COMPOSITIONS AND METHODS OF USE	SAERTROM PAL [NO]	MINA THERAPEUTICS LTD [GB]	EP3594348A1	2013-11-22	A61K31/708 8 C12N15/113	A61K31/7088 (CN) A61K31/7105 (EP,KR,US) A61K45/06 (US) A61K47/549 (EP,US) A61K47/64 (EP,US) A61P1/16 (EP) A61P29/00 (EP) A61P3/04 (EP) A61P3/06 (EP) A61P3/08 (EP) A61P3/10 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/04 (EP) A61P43/00 (EP) A61P5/50 (EP) C12N15/113 (EP,CN,KR,US) C12N15/1135 (US) C12N2310/11 (EP,CN,KR,US) C12N2310/113 (US) C12N2310/141 (KR)	2020-01-15	2015-05-28	052649067
68	AMINO ACID COMPOSITIONS FOR THE TREATMENT OF SYMPTOMS OF DISEASE	DENNISON DANIEL B [US] GATTO STEPHEN J [US] VIDYASAGAR SADASIVAN [US]	ENTRINSIC HEALTH SOLUTIONS INC [US]	EP3616689A1	2014-11-24	A61K31/00 A61P31/12	A61K31/197 (EP,US) A61K31/198 (EP,US) A61K31/405 (EP,US) A61P1/00 (EP) A61P1/12 (EP) A61P29/00 (EP) A61P3/12 (EP) A61P31/12 (EP) A61P31/18 (EP) A61P35/00 (EP) A61K31/00 (EP,US) A61K31/197, A61K2300/00, INV	2020-03-04	2016-06-02	056074902



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							(EP) A61K31/198, A61K2300/00, INV (EP) A61K31/405, A61K2300/00, INV (EP)			
69	PROTEINS COMPRISING AMINO-TERMINAL PROXIMAL SHIGA TOXIN A SUBUNIT EFFECTOR REGIONS AND CELL-TARGETING IMMUNOGLOBULIN-TYPE BINDING REGIONS CAPABLE OF SPECIFICALLY BINDING CD38	POMA ERIC [US] WILLERT ERIN [US]	MOLECULAR TEMPLATES INC [US]	EP3604333A1	2014-03-11	C07K16/08 C07K16/20 C07K16/28 C07K16/30 C07K16/32	A61K47/6829 (KR) A61K49/00 (US) A61P1/04 (EP) A61P11/06 (EP) A61P13/12 (EP) A61P17/00 (EP) A61P17/06 (EP) A61P19/02 (EP) A61P25/00 (EP) A61P29/00 (EP) A61P3/10 (EP) A61P31/00 (EP) A61P31/04 (EP) A61P31/18 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/02 (EP) A61P37/06 (EP) A61P5/14 (EP) A61P7/00 (EP) A61P9/00 (EP) C07K14/245 (US) C07K14/25 (EP,CN,KR) C07K16/08 (KR) C07K16/085 (EP,CN) C07K16/088 (EP,CN) C07K16/1063 (EP,CN) C07K16/20 (EP,CN,KR) C07K16/28 (KR) C07K16/2803 (EP,CN) C07K16/2833 (EP,CN) C07K16/286 (EP,CN) C07K16/2863 (EP,CN) C07K16/2866 (EP,CN) C07K16/2881 (EP,CN) C07K16/2896 (EP,CN,US) C07K16/3015 (US) C07K16/3023 (US) C07K16/303 (US) C07K16/3038 (US) C07K16/3046 (US) C07K16/3053 (US) C07K16/32 (EP,CN,KR,US) G01N33/6803 (US) G01N33/6854 (KR) A61K38/00 (CN) C07K2317/622 (EP,CN,KR) C07K2317/92 (US) C07K2317/94 (US) C07K2319/00 (EP,CN,KR,US)	2020-02-05	2015-09-17	052737411
70	RADICAL-GENERATING CATALYST, RADICAL PRODUCTION METHOD, OXIDATION REACTION PRODUCT PRODUCTION METHOD, CHEMICAL AGENT, AND CHEMICAL AGENT FOR AGRICULTURE AND LIVESTOCK	SHIBATA TAKEKATSU [JP] TAKAMORI KIYOTO [JP]	ACENET INC [JP]	EP3626339A1	2017-06-17	A01N33/12 A01N59/08 A01P3/00 A61K31/19 A61K33/04 A61K33/42 A61P1/00 A61P31/00 B01J31/02	A01N33/12 (EP) A01N59/08 (EP) A61K31/19 (EP) A61K33/04 (EP) A61K33/42 (EP) A61P1/00 (EP) A61P31/00 (EP) B01J31/02 (EP)	2020-03-25	2018-12-20	064660583
71	CENTRAL NERVOUS SYSTEM TARGETING POLYNUCLEOTIDES	GOULET MARTIN [US] HOU JINZHAO [US] KELLS ADRIAN PHILIP [US]	VOYAGER THERAPEUTICS INC [US]	EP3632923A1	2015-01-16	A61K31/708 8 C07K14/005	A61K31/7088 (EP,US) A61K48/005 (EP,US) A61K48/0075 (EP,US) A61K48/0083 (EP,US) C07K14/47 (EP,US)	2020-04-08	2016-07-21	056406481



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
		RAMAMOORTHI KARTIK [US] SAH DINAH WEN-YEE [US] SHU YANQUN [US] STEWART GREGORY R [US] ZHOU PENGCHENG [US]					C12N2750/14143 (EP,US)			
72	ADJUVANT COMPOSITION, AND VACCINE COMPOSITION AND DRUG KIT CONTAINING SAME	SAKAGUCHI NAOKI [JP]	TERUMO CORP [JP]	EP3603668A1	2017-03-29	A61K31/708 8 A61K39/00 A61K39/39 A61K39/395 A61K45/08 A61P35/00 A61P37/02 A61P37/04	A61K31/7088 (EP,US) A61K39/00 (EP) A61K39/39 (EP,US) A61K39/395 (EP,US) A61P35/00 (EP) A61P37/02 (EP) A61P37/04 (EP,US)	2020-02-05	2018-10-04	063676169
73	MACROCYCLIC INHIBITORS OF THE PD-1/PD-L1 AND CD80(B7-1)/PD-L1 PROTEIN/PROTEIN INTERACTIONS	ALLEN MARTIN PATRICK [US] BOWSHER MICHAEL S [US] BOY KENNETH M [US] GILLIS ERIC P [US] LANGLEY DAVID R [US] MAPELLI CLAUDIO [US] MILLER MICHAEL MATTHEW [US] MULL ERIC [US] POIRIER MAUDE A [US] REID PATRICK C [JP] SANGHVI NISHITH [US] SCOLA PAUL MICHAEL [US] SUN LI-QIANG [US] TENNEY DANIEL J [US] YEUNG KAP-SUN [US] ZHU JULIANG [US]	SQUIBB BRISTOL MYERS CO [US]	EP3626732A1	2013-03-15	A61K38/12 C07K7/08 C07K7/56 G01N33/68	A61K38/10 (US) A61K39/39 (US) A61K45/06 (US) A61P1/16 (EP) A61P31/04 (EP) A61P31/12 (EP) A61P31/14 (EP) A61P31/16 (EP) A61P31/18 (EP) A61P31/20 (EP) A61P31/22 (EP) A61P35/00 (EP) A61P35/04 (EP) A61P37/02 (EP) A61P37/04 (EP) A61P43/00 (EP) C07K7/08 (EP,US) C07K7/56 (EP,US) G01N33/574 (EP,US) A61K38/00 (EP,US) G01N2333/70532 (EP,US) G01N2500/02 (EP,US) G01N2800/26 (EP,US) Y02A50/463 (EP)	2020-03-25	2014-09-25	050877649
74	PHENYL-N-QUINOLINE DERIVATIVES FOR TREATING A RNA VIRUS INFECTION		ABIVAX [FR] CENTRE NAT RECH SCIENT [FR] INST CURIE [FR] UNIV MONTPELLIER [FR]	EP3594206A1	2018-07-09	A61K31/47 A61K31/470 9 A61P31/14 C07D215/38 C07D401/12 C07D405/12	A61K31/47 (EP) A61K31/4709 (EP) A61P31/14 (EP) C07D215/38 (EP) C07D401/12 (EP) C07D405/12 (EP)	2020-01-15	2020-01-15	063035966
75	IMPROVED METHODS FOR GENERATION, LABELING AND USE OF MHC MULTIMERS	BRIX LISELOTTE [DK] BRUNSTEDT KATJA [DK] JACOBSEN KIVIN [DK] JAKOBSEN TINA [DK] LOHSE JESPER [DK] PEDERSEN HENRIK [DK] SCHØLLER JØRGEN [DK]	DAKO DENMARK AS [DK]	EP3620465A1	2001-05-22	A61K38/17 A61K39/00 A61K47/61 A61K47/64 A61K47/66 A61P31/00 B82Y5/00 C07K14/74 G01N33/50	A61K47/61 (EP,US) A61K47/6425 (EP,US) A61K47/665 (EP,US) A61P31/00 (EP) B82Y5/00 (EP,US) C07K14/70539 (EP,US) A61K38/00 (EP,US)	2020-03-11	2009-01-08	040225718
76	METHODS OF POPULATING A GASTROINTESTINAL TRACT	AFEYAN NOUBAR B [US] BERRY DAVID A [US] COOK DAVID N [US] GOODMAN BRIAN [US] HENN MATTHEW R [US] MCKENZIE MARY-	SERES THERAPEUTICS INC [US]	EP3587558A2	2013-02-04	A61K35/741 C12N1/20	A61K35/37 (US) A61K35/74 (EP,RU,US) A61K35/741 (RU,US) A61K35/742 (EP,RU,US) A61K35/744 (RU,US) A61K35/745 (RU,US) A61K35/747 (RU,US) A61K45/06 (US) A61K9/0053 (RU,US)	2020-01-01	2014-08-07	051263061



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
		JANE LOMBARDO [US] VON MALTZAHN GEOFFREY [US] VULIC MARIN [US]					A61K9/48 (RU,US) A61K9/4816 (US) A61P1/00 (EP) A61P1/04 (EP) A61P1/12 (EP) A61P31/04 (EP) C12N1/20 (EP,RU,US) Y02A50/402 (EP,US) Y02A50/469 (EP,US) Y02A50/473 (EP,US) Y02A50/475 (EP,US) Y02A50/478 (EP,US) Y02A50/48 (EP,US) Y02A50/481 (EP,US) Y02A50/49 (EP,US)			
77	COMPOSITIONS FOR USE IN THE TREATMENT OF INFECTIOUS OR INFLAMMATORY DISEASES	WANG HUIRU [US]	B&H BIOTECHNOLOGIES LLC [US]	EP3620165A1	2013-03-15	A61K31/14 A61K31/16 A61K31/198 A61K31/70 A61K45/06 A61P1/06 A61P1/12 A61P11/00 A61P29/00 A61P31/12 A61P31/14 A61P31/16	A23K20/142 (EP) A23K20/147 (EP) A23L33/10 (EP) A23L33/17 (EP) A23L33/175 (EP) A61K31/198 (EP,US) A61K31/7008 (EP,US) A61K45/06 (EP,US) A61K9/0019 (EP) A61K9/0043 (EP) A61K9/0095 (EP) A61P1/06 (EP) A61P1/12 (EP) A61P11/00 (EP) A61P11/06 (EP) A61P29/00 (EP) A61P31/12 (EP) A61P31/14 (EP) A61P31/16 (EP) A61P31/20 (EP) A61P37/00 (EP) A61P43/00 (EP) C07C321/14 (US) C07H15/12 (US) A23V2002/00 (US) A61K47/02 (EP) A61K9/08 (EP) A61K9/10 (EP) A61K9/107 (EP) A61K31/198, A61K2300/00, INV (EP) A61K31/7008, A61K2300/00, INV (EP)	2020-03-11	2014-09-25	051580978
78	HETERODIMERIC IMMUNOGLOBULINS	FLORIO MONICA [US] KANNAN GUNASEKARAN [US] LIU ZHI [US] YAN WEI [US]	AMGEN INC [US]	EP3587451A1	2012-11-21	A61K39/395 A61P19/08 C07K16/18 C07K16/22 C07K16/28 C07K16/32 C07K16/46 C07K19/00	A61P19/00 (EP) A61P19/08 (EP) C07K16/18 (EP,US) C07K16/22 (EP,US) C07K16/2863 (EP,US) C07K16/32 (EP,US) C07K16/468 (US) A61K2039/505 (EP,US) C07K2317/31 (EP,US) C07K2317/34 (EP,US) C07K2317/52 (EP,US) C07K2317/565 (US) C07K2317/567 (EP,US) C07K2317/72 (EP,US) C07K2317/732 (EP,US) C07K2317/75 (EP,US) C07K2317/76 (EP,US) C07K2317/92 (EP,US) C07K2317/94 (EP,US) C07K2319/00 (EP,US)	2020-01-01	2014-05-30	049724683
79	SEMI-RANDOM BARCODES FOR NUCLEIC ACID ANALYSIS	WANG YEXUN [US] WU ZHONG [US]	QIAGEN SCIENCES LLC [US]	EP3626834A1	2014-07-15	C12Q1/6806 C12Q1/6809	C12N15/1093 (EP,US) C12Q1/6806 (EP,US) C12Q1/6809 (EP,US) C12Q1/6869 (EP,US)	2020-03-25	2016-01-21	053718195



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							C12Q1/6806, C12Q2525/151, C12Q2525/179, C12Q2525/179%2, C12Q2525/185, C12Q2535/122, C12Q2563/179, INV (EP) C12Q1/6809, C12Q2525/151, C12Q2525/179, C12Q2525/179%2, C12Q2525/185, C12Q2535/122, C12Q2563/179, INV (EP) C12Q1/6869, C12Q2525/151, C12Q2525/179, C12Q2525/179%2, C12Q2525/185, C12Q2535/122, C12Q2563/179, INV (EP)			
80	3' UTR SEQUENCES FOR STABILIZATION OF RNA	BEISSERT TIM [DE] FESSER STEPHANIE [DE] KUHN ANDREAS [DE] ORLANDINI VON NIESSEN ALEXANDRA [DE] POLEGANOV MARCO ALEXANDER [DE] SAHIN UGUR [DE] VALLAZZA BRITTA [DE]	BIONTECH RNA PHARMACEUTICALS GMBH [DE] TRON TRANSLATIONALE ONKOLOGIE AN DER UNIV DER JOHANNES GUTENBERG UNIV MAINZ GEMEINNUETZIGE GMBH [DE]	EP3636764A1	2015-10-07	C12N15/67	A61P31/00 (EP) A61P31/04 (EP) A61P31/10 (EP) A61P31/12 (EP) A61P33/00 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P35/04 (EP) A61P37/06 (EP) C12N15/113 (US) C12N15/67 (EP,KR,US) C12N15/90 (US) C12N5/0606 (US) C12N2310/113 (US)	2020-04-15	2017-04-13	054293227
81	HUMAN ANTIBODIES THAT BIND LYMPHOCYTE ACTIVATION GENE-3 (LAG-3) AND USES THEREOF	KORMAN ALAN J [US] LEBLANC HEIDI [US] SELBY MARK [US] THUDIUM KENT B [US] YAMANAKA MARK [US] ZENS KYRA D [US]	SQUIBB & SONS LLC [US]	EP3597216A1	2008-08-11	A61K39/00 A61K39/395 A61K51/10 C07K16/28 C07K17/00	A61K39/395 (KR) A61P31/12 (EP) A61P31/18 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P37/00 (EP) A61P37/04 (EP) A61P43/00 (EP) C07K16/18 (KR) C07K16/2803 (EP,CN,US) C07K16/2827 (EP,US) C07K7/08 (KR) A61K2039/505 (EP,US) A61K2039/507 (EP,US) C07K2317/21 (EP,US) C07K2317/34 (EP,US) C07K2317/73 (EP,US) C07K2317/76 (EP,US) C07K2317/92 (EP,CN,US)	2020-01-22	2010-02-18	041669613
82	ANALYTE DETECTION DEVICES, MULTIPLEX AND TABLETOP DEVICES FOR DETECTION OF ANALYTES, AND USES THEREOF	BOULIANE MARTIN JOSEPH [US] LEONG LOUIS [US] SICILIANO NICHOLAS A [US]	INVISIBLE SENTINEL INC [US]	EP3608021A2	2009-07-31	B01L3/00 G01N33/02 G01N33/543	B01L3/5023 (EP,US) B01L3/502738 (EP,US) G01N33/02 (EP,US) G01N33/558 (US) G01N33/56916 (US) G01N33/56922 (US) B01L2300/0816 (EP,US) B01L2300/0832 (EP,US) B01L2300/0864 (EP,US) B01L2300/0874 (EP,US)	2020-02-12	2012-08-02	046581437



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
							B01L2300/123 (US) B01L2400/0406 (EP,US) B01L2400/0487 (EP,US) B01L2400/0633 (EP,US) B01L2400/0694 (US) G01N2333/205 (US) G01N2333/245 (US) G01N2333/255 (US)			
83	PYRROLO AND PYRAZOLOPYRIMIDINES AS UBIQUITIN-SPECIFIC PROTEASE 7 INHIBITORS	BUCKMELTER ALEXANDRE JOSEPH [US] CAMPBELL ANN-MARIE [US] CARAVELLA JUSTIN A [US] DIEBOLD R BRUCE [US] ERICSSON ANNA [US] FOLLOWS BRUCE [US] GUERIN DAVID JOSEPH [US] IOANNIDIS STEPHANOS [US] LANCIA DAVID R JR [US] SCHMIDT DARBY RYE [US] TALBOT ADAM CHARLES [US] WANG MINGHUA [US]	FORMA THERAPEUTICS INC [US]	EP3623372A1	2014-12-30	A61K31/519 A61P25/28 A61P3/10 A61P35/00 A61P9/00 C07D487/04	A61K31/519 (EP,KR,US) A61P25/28 (EP) A61P3/10 (EP) A61P35/00 (EP) A61P9/00 (EP) C07D487/04 (EP,CN,KR,US) C07D519/00 (EP,US)	2020-03-18	2016-06-30	055310894
84	ANTIGEN RECEPTORS AND USES THEREOF	BIREL MATTHIAS [DE] SAHIN UGUR [DE] SIMON PETRA [DE] THEOBALD MATTHIAS [DE] VOSS RALF HOLGER [DE]	BIONTECH CELL & GENE THERAPIES GMBH [DE] TRON TRANSLATIONALE ONKOLOGIE AN DER UNIV DER JOHANNES GUTENBERG UNIV MAINZ GGMBH [DE]	EP3617226A1	2015-10-07	C07K14/725 C07K16/28	A61P35/00 (EP) A61P43/00 (EP) C07K14/7051 (EP,KR,US) C07K16/28 (EP,KR) C07K16/30 (US) A61K2039/5156 (EP,KR,US) A61K2039/585 (EP,KR,US) C07K2317/35 (EP,KR,US) C07K2317/52 (US) C07K2317/524 (US) C07K2317/526 (US) C07K2317/56 (US) C07K2317/622 (EP,KR,US) C07K2317/74 (EP,KR,US) C07K2319/33 (EP,KR,US)	2020-03-04	2017-04-13	054288785
85	PHENYL-N-ARYL DERIVATIVES FOR TREATING A RNA VIRUS INFECTION		ABIVAX [FR] CENTRE NAT RECH SCIENT [FR] INST CURIE [FR] UNIV MONTELLIER [FR]	EP3594205A1	2018-07-09	A61K31/44 A61P31/18 C07D213/74 C07D213/81 C07D401/12	C07D213/74 (EP) C07D213/81 (EP) C07D239/12 (EP) C07D401/12 (EP) C07D403/12 (EP) C07D405/12 (EP) C07D413/12 (EP)	2020-01-15	2020-01-15	063035967
86	SUBSTITUTED 2,4 DIAMINO-QUINOLINE AS NEW MEDICAMENT FOR FIBROSIS, AUTOPHAGY AND CATHEPSINS B (CTSB), L (CTSL) AND D (CTSD) RELATED DISEASES	BASSISSI FIRAS [FR] BRUN SONIA [FR] COURCAMBECK JÉRÔME [FR] HALFON PHILIPPE [FR] MADANI RACHID [FR]	GENOSCIENCE PHARMA SAS [FR]	EP3620164A1	2018-09-05	A61K31/4709 A61P1/16	A61K31/4709 (EP) A61P1/16 (EP) C07D207/02 (US) C07D215/02 (US) C07D487/04 (US)	2020-03-11	2020-03-11	063637824
87	ANTIBODY COMPOSITIONS FOR TUMOR TREATMENT	DAVIS SAMUEL [US] KIRSHNER JESSICA R [US]	REGENERON PHARMA [US]	EP3594238A1	2014-03-19	A61K39/395 C07K16/28	A61P17/00 (EP) A61P35/00 (EP) A61P35/02 (EP) A61P7/00 (EP)	2020-01-15	2015-09-24	052808172



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
		SMITH ERIC [US] THURSTON GAVIN [US] VARGHESE BINDU [US]					C07K16/2803 (IL,US) C07K16/2809 (EP,CN,IL,US) C07K16/2887 (EP,CN,IL,US) C07K16/468 (CN) A61K2039/505 (EP,CN,IL,US) C07K2317/24 (CN) C07K2317/31 (EP,CN,IL,US) C07K2317/33 (EP,IL,US) C07K2317/51 (IL,US) C07K2317/52 (EP,IL,US) C07K2317/522 (CN,IL,US) C07K2317/524 (CN,IL,US) C07K2317/526 (CN,IL,US) C07K2317/53 (CN,IL,US) C07K2317/56 (IL,US) C07K2317/565 (CN,IL,US) C07K2317/66 (EP,IL,US) C07K2317/71 (EP,CN,IL,US) C07K2317/73 (EP,IL,US) C07K2317/732 (CN) C07K2317/734 (CN) C07K2317/92 (EP,CN,IL,US)			
88	INTEGRIN INHIBITORS	BORTOLATO ANDREA [US] BURSAVICH MATTHEW G [US] DAY TYLER [US] DOWLING JAMES E [US] GERASYUTO ALEKSEY I [US] HAHN KRISTOPHER N [US] HARRISON BRYCE A [US] HICKEY EUGENE [US] KIM BYUNGCHAN [US] KONZE KYLE D [US] LIN FU-YANG [US] LIPPA BLAISE S [US] QIAO QI [US] ROGERS BRUCE N [US] SOSA BRIAN [US] SVENSSON MATS A [US] TROAST DAWN M [US] ZHONG CHENG [US]	MORPHIC THERAPEUTIC INC [US]	EP3617206A1	2018-08-29	A61K31/437 5 A61P11/00 C07D471/04	A61K9/0053 (US) C07D471/04 (EP,US)	2020-03-04	2020-03-04	067809398
89	SHIGA TOXIN A SUBUNIT EFFECTOR POLYPEPTIDES, SHIGA TOXIN EFFECTOR SCAFFOLDS, AND CELL-TARGETING MOLECULES FOR SITE-SPECIFIC CONJUGATION	POMA ERIC [US] WILLERT ERIN [US]	MOLECULAR TEMPLATES INC [US]	EP3608333A1	2016-12-07	A61K38/04 C07K14/25	A61K38/04 (EP) A61P31/04 (EP) A61P35/00 (EP) A61P37/00 (EP) C07K14/25 (EP)	2020-02-12	2018-06-14	060888632
90	MICROORGANISMS AND METHODS FOR PRODUCING 2,4-	BURGARD ANTHONY P [US] BURK MARK J [US]	GENOMATICA INC [US]	EP3591056A1	2011-08-19	C12N15/70 C12P5/02 C12P7/04	C12N15/70 (US) C12P5/026 (EP) C12P7/04 (EP)	2020-01-08	2013-02-28	047746782



No	Title	Inventors	Applicants	Publication number	Earliest priority	IPC	CPC	Publication date	Earliest publication	Family number
	PENTADIENOATE, BUTADIENE, PROPYLENE, 1,3-BUTANEDOL AND RELATED ALCOHOLS	OSTERHOUT ROBIN E [US]				C12P7/16 C12P7/18 C12P7/40	C12P7/16 (EP,US) C12P7/18 (EP) C12P7/40 (EP) Y02E50/10 (EP)			
91	NOVEL CRISPR ENZYMES AND SYSTEMS	ABUDAYYEH OMAR O [US] GOOTENBERG JONATHAN S [US] SLAYMAKER IAN [US] ZETSCHKE BERND [US] ZHANG FENG [US]	BROAD INST INC [US] HARVARD COLLEGE [US] MASSACHUSETTS INST TECHNOLOGY [US]	EP3604532A1	2015-06-18	C12N15/10 C12N15/113 C12N15/82 C12N9/22	C12N15/10 (US) C12N15/102 (EP,CN,KR,US) C12N15/11 (US) C12N15/111 (EP,KR,US) C12N15/113 (EP,CN,KR) C12N15/82 (EP) C12N15/8201 (EP,CN,KR,US) C12N15/85 (KR,US) C12N15/902 (CN) C12N9/22 (EP,CN,KR,US) C12N2310/10 (EP,CN,US) C12N2310/16 (EP,KR,US) C12N2310/20 (EP,CN,KR,US) C12N2310/3519 (EP,CN,KR,US)	2020-02-05	2016-04-20	055274964
92	MICROORGANISMS AND METHODS FOR THE BIOSYNTHESIS OF HEXAMETHYLENEDIAMINE	BURGARD ANTHONY P [US] BURK MARK J [US] OSTERHOUT ROBIN E [US] PHARKYA PRITI [US]	GENOMATICA INC [US]	EP3611254A1	2009-05-07	C12N1/38 C12N15/52 C12P13/00 C12P13/02 C12P17/10 C12P7/40 C12P7/44	C12N1/00 (KR) C12N1/02 (KR) C12N1/20 (KR) C12N1/38 (EP,KR,US) C12N15/52 (EP,KR,US) C12P13/001 (EP,KR,US) C12P13/005 (EP,KR,US) C12P13/02 (EP,KR,US) C12P13/04 (KR) C12P17/10 (EP,US) C12P17/12 (KR,US) C12P7/40 (EP,US) C12P7/44 (EP,KR,US)	2020-02-19	2010-11-11	043050517

Γ. ΕΡΕΥΝΑ ΣΤΗΝ ΒΑΣΗ WPI ΣΕ ΕΣΤΙΑΣΜΕΝΕΣ ΤΑΞΙΝΟΜΗΣΕΙΣ ΓΙΑ ΚΟΡΩΝΟΪΟΥΣ Ή ΑΝΤΙΪΚΑ ΦΑΡΜΑΚΑ Ή ΔΙΑΓΝΩΣΤΙΚΑ ΤΕΣΤ ΓΙΑ ΗΜΕΡ. ΔΗΜΟΣΙΕΥΣΗΣ ΜΕΤΑ ΤΟ 2002 ΚΑΙ ΓΙΑ ΕΥΡΩΠΑΪΚΑ ΔΕ (EP)

Η έρευνα στην βάση WPI έγινε σε πλέον εστιασμένες ταξινομήσεις που σχετίζονται με κορωνοϊούς και αντιϊκά φάρμακα ή διαγνωστικά τέστ, για ημερομηνία δημοσίευσης μετά το 2002 (δηλ. μετά την εμφάνιση του SARS το 2003).

Η έρευνα περιορίστηκε σε Ευρωπαϊκά ΔΕ (EP) και μάλιστα σε χορηγημένα Ευρωπαϊκά ΔΕ, έτσι ώστε να διερευνηθεί ποια από αυτά έχουν προστασία στην Ελλάδα, έχουν έρθει στον OBI.

Η αναζήτηση έγινε για τις εστιασμένες ταξινομήσεις:

A61K39/IC/C OR C12N7/IC OR C07K14/IC OR C07K16/IC OR G01N33/IC OR C12Q1/IC OR A61P31/12/IC, για HUMAN CORONAVIRUS και για PN=EP και PD>2002.



Βρέθηκαν 28 χορηγημένα EP Διπλώματα, για τα οποία παρακάτω δίνεται ο αριθμός δημοσίευσης και ο τίτλος τους, όπως παρέχεται από τη βάση δεδομένων.

1/28 PN - EP2849763 B1 20171025

TI - THE USE OF CHITOSAN POLYMER IN THE TREATMENT AND PREVENTION OF INFECTIONS CAUSED BY CORONAVIRUSES

2/28 PN - EP2764125 B1 20180221

TI - COMPOSITIONS AND METHODS OF DETECTING RESPIRATORY PATHOGENS USING NUCLEIC ACID PROBES AND SUBSETS OF BEADS

3/28 PN - EP2666481 B1 20181114

TI - METHOD OF REGULATING PHOSPHORYLATION OF SR PROTEIN AND ANTIVIRAL AGENTS COMPRISING SR PROTEIN ACTIVITY REGULATOR AS THE ACTIVE INGREDIENT

4/28 PN- EP2739730 B1 20190515

TI - CELL FREE TRANSLATION SYSTEM FOR COMPOUND SCREENING AND RELATED USES

5/28 PN - EP2670422 B1 20181017

TI - ANTAGONISM OF THE VIP SIGNALING PATHWAY

6/28 PN- EP2651965 B1 20181212

TI- CYCLOSPORINE ANALOGUE MOLECULES MODIFIED AT AMINO ACID 1 AND 3

7/28 PN - EP2689016 B1 20150311

TI- IMMUNOGENIC COMPOSITIONS IN PARTICULATE FORM AND METHODS FOR PRODUCING THE SAME

8/28 PN – EP2799071 B1 20181017

TI- USE OF LEVOCETIRIZINE AND MONTELUKAST IN THE TREATMENT OF INFLUENZA, COMMON COLD AND INFLAMMATION

9/28 PN - EP2585073 B1 20160427

TI - ANTIVIRAL COMPOUNDS

10/28 PN - EP2533793 B1 20151209

TI - GAL-4 FOR USE IN THE TREATMENT OF INFECTIOUS DISEASES



11/28 PN - EP2545172 B2 20171206

TI - METHODS OF TESTING FOR INTRACELLULAR PATHOGENS

12/28 PN - EP2509636 B1 20170719

TI- COMPOSITIONS FOR NUCLEIC ACID DELIVERY

13/28 PN - EP2494059 B1 20161123

TI - USE OF METHYLSULFONYLMETHANE (MSM) TO MODULATE MICROBIAL ACTIVITY

14/28 PN - EP2536400 B1 20140924

TI - MEDICAMENT COMPRISING MYRAMISTIN

15/28 PN- EP2325314 B1 20140820

TI- TARGETING OPPOSITE STRAND REPLICATION INTERMEDIATES OF SINGLE-STRANDED VIRUSES BY RNAI

16/28 PN - EP2451827 B1 20160615

TI - CHIMAERIC PROTEIN

17/28 PN - EP2411521 B1 20150114

TI - COMPOSITIONS FOR STIMULATION OF MAMMALIAN INNATE IMMUNE RESISTANCE TO PATHOGENS

18/28 PN - EP2385834 B1 20151216

TI - USE OF DEUTERIUM OXIDE FOR TREATING VIRAL DISEASES OF THE RESPIRATORY TRACT

19/28 PN - EP2144998 B1 20170104

TI - METHODS AND COMPOSITIONS FOR LIVE ATTENUATED VIRUSES

20/28 PN - EP2049144 B1 20140706

TI - GLYCOSYLATION OF PEPTIDES VIA O-LINKED GLYCOSYLATION SEQUENCES

21/28 PN - EP1957984 B1 20111005

TI- TEST DEVICE FOR RAPID DIAGNOSTICS

22/28 PN - EP1907536 B1 20100407



TI- CELL LINE FOR PRODUCING CORONAVIRUSES

23/28 PN - EP1750760 B1 20170628

TI - PRESERVATION BY VAPORIZATION

24/28 PN - EP1712242 B1 20180530

TI - METHOD OF REGULATING PHOSPHORYLATION OF SR PROTEIN AND ANTIVIRAL AGENTS COMPRISING SR PROTEIN ACTIVITY REGULATOR AS THE ACTIVE INGREDIENT

25/28 PN - EP1590364 B1 20111005

TI - HUMAN MONOCLONAL ANTIBODIES AGAINST INTERLEUKIN 8 (IL-8)

26/28 PN - EP1685854 B1 20101027

TI - VIRUCIDAL DISINFECTION COMPOSITION

27/28 PN - EP1797185 B1 20110413

TI - TARGETING OPPOSITE STRAND REPLICATION INTERMEDIATES OF SINGLE-STRANDED VIRUSES BY RNAI

28/28 PN - EP1704243 B1 20120404

TI - OLIGONUCLEOTIDE COMPOUND AND METHOD FOR TREATING NIDOVIRUS INFECTIONS

Εξ αυτών των 28, στην Ελλάδα έχουν προστασία 3 ΕΡ, για τα οποία στον παρακάτω πίνακα δίνεται ο αριθμός χορήγησης του ΕΓΔΕ, ο αριθμός χορήγησης του ΕΔΕ στον ΟΒΙ και γίνεται αναφορά ότι είναι σε ισχύ.

ΕΡ Β1	Τίτλος	ΕΔΕ
EP2651965 (6/28)	CYCLOSPORINE ANALOGUE MOLECULES MODIFIED AT AMINO ACID 1 AND 3	3098565 ΣΕ ΙΣΧΥ
EP2536400 (14/28)	MEDICAMENT COMPRISING MYRAMISTIN	3085013 ΣΕ ΙΣΧΥ
EP2144998 (19/28)	METHODS AND COMPOSITIONS FOR LIVE ATTENUATED VIRUSES	3092091 ΣΕ ΙΣΧΥ



Τέλος, επιπρόσθετα έγινε έρευνα στο EMT σε φάρμακα για τα οποία ήδη έχει ανακοινωθεί στη σελίδα του ΠΟΥ ότι χρησιμοποιούνται σε κάποιες μελέτες / κλινικές δοκιμές για την θεραπεία του COVID 19 . Για τις δραστικές αυτές βρέθηκαν ότι υπάρχουν τρεις, των οποίων το αντίστοιχο ΔΕ καθώς και το Συμπληρωματικό Πιστοποιητικό Προστασίας έχει λήξει στην Ελλάδα.

Αυτές είναι:

Δραστική ουσία	Αρ. Χορήγησης ΕΡ	Αρ. Χορήγησης ΟΒΙ	ΣΠΠΦ	Ημ. Λήξης ΣΠΠΦ
Tocilizumab	ΕΡ0628639	3031174	8000304	25/04/2017
Lopinavir+ Ritonavir	ΕΡ0674513	3021170	8000096	15/12/2015
Ιντερφερόνη βήτα 1β	-----	79408	8000045	18/10/2008



Εφαρμογές 3D-PRINTING και λοιπών τεχνολογιών για την καταπολέμηση της εξάπλωσης της νόσου COVID-19

ΣΚΟΠΟΣ ΚΑΙ ΣΤΡΑΤΗΓΙΚΗ ΤΗΣ ΕΡΕΥΝΑΣ

Η έρευνα πραγματοποιήθηκε με σκοπό την εξεύρεση κυρίως Διπλωμάτων Ευρεσιτεχνίας (Δ.Ε) αναφορικά με ιατρικές / χειρουργικές μάσκες καθώς και ιατρικούς αναπνευστήρες κατασκευασμένα με την τεχνική της Τρισδιάστατης εκτύπωσης (3D-printing). Επιπλέον στο γενικότερο πλαίσιο αναζήτησης πιθανών τεχνολογιών για την καταπολέμηση της εξάπλωσης του κορωνοϊού συμπεριλαμβάνονται Δ.Ε κατάλληλου ιατρικού εξοπλισμού (ιατρικά γυαλιά προστασίας ενσωματωμένα με ιατρικές μάσκες) καθώς και συσκευές/ συστήματα ανίχνευσης και διάγνωσης ατόμων που φέρουν ιατρική μάσκα κατά πόσο έχουν μολυνθεί με μεταδοτική ασθένεια.

Ανακτήθηκαν ενδεικτικά 60 ξενόγλωσσα δημοσιευμένα Δ.Ε που αποκαλύπτουν το αντικείμενο της έρευνας τόσο με την τεχνολογία 3D-printing όσο και λοιπών τεχνολογιών που κρίνονται κατάλληλα για την καταπολέμηση του κορωνοϊού.

Η εκπόνηση της συγκεκριμένης έρευνας πραγματοποιήθηκε στις βάσεις δεδομένων EPOQUE (European Patent Office QUERY), WPI (Derwent World Patents Index), NPL (Non Patent Literature) και συγκεκριμένα στα τεχνικά πεδία B33Y.



ΑΠΟΤΕΛΕΣΜΑΤΑ ΤΗΣ ΕΡΕΥΝΑΣ

(60 ξενόγλωσσα Διπλώματα Ευρεσιτεχνίας)

Title	Publication number	Publication date	Inventor(s)	Applicant(s)	International classification	Cooperative Patent Classification	Application number	Date of application
FACIAL MASK AND METHOD OF MAKING	US10463823 (B2) ; US2015273170 (A1)	2015-10-01	BACHELDER VANCE D [US] CARRILLO III JOSE [US]	MORPHEUS MEDICAL SOLUTIONS LLC [US]	A61M16/06 B29C67/00	A61M16/0605 A61M16/0611 A61M16/0616 A61M16/0672 A61M2016/0661 A61M2202/0208 A61M2202/0283 A61M2207/00 B29C64/00 B29L2031/4835 B29L2031/507 B29L2031/753 B33Y10/00 B33Y80/00	US201514735928	20150610
Manufactured to Shape Headgear and Masks	AU2015218417 (A1)	2015-09-10	DUNN JESSICA LEA FORMICA JUSTIN JOHN BARBARA ANTHONY PAUL	RESMED LTD	A61M16/06 A62B18/02		AU20150218417	20150825
DROPLET COLLECTION DEVICES AND METHODS TO DETECT AND CONTROL AIRBORNE COMMUNICABLE DISEASES UTILIZING RFID	WO2008097307 (A2) ; WO2008097307 (A3)	2008-08-14	KANZER STEVE H [US]	KANZER STEVE H [US]	A62B23/02 A62B7/10 A62B18/02	A62B18/025 A62B23/025	WO2007US61082	20070125
Facemask With Filter Insert For Protection Against Airborne Pathogens	US2015314148 (A1) ; US9457207 (B2)	2015-11-05	WATERFORD STEVE [US]	WATERFORD MASK SYSTEMS INC [US]	A62B23/02 A41D13/11 A62B18/08	A62B18/025 A62B18/08 A62B18/082 A62B18/084 A62B23/02 A62B23/025 A41D13/1161 A41D13/1192	US201514801808	20150716
FILTER FOR MASK AND MASK FORMED USING THE SAME	EP2070564 (A1)	2009-06-17	IWAMOTO TAKUYA [JP] TAKEUCHI NAOHITO [JP] ISHIGAMI MAKOTO [JP] TERAOKA HIROMI [JP]	UNI CHARM CORP [JP]	A62B18/02 B01D39/14 B01D39/16 B32B5/26 D04H1/413	A62B18/025 A62B23/025 B01D39/1623 B32B5/022 B32B5/26 D04H1/42 B01D2239/0442 B01D2239/065 B32B2262/0253 B32B2264/10 B32B2307/54 B32B2307/7145 B32B2307/718 B32B2307/7242 B32B2571/00	EP20070829122	20071003
3D printed medical face mask matched with sleep breathing machine and	CN107263856 (A)	2017-10-20	ZENG WEIHONG	WUHU QIZE INFORMATION TECH CO LTD	B29C64/18 A61M16/06 B29C64/12 B29C64/3	A61M16/0605 B33Y50/00 B33Y50/02 B33Y80/00 G06T17/00	CN201710516517	20170629



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manufacturing method thereof					86 B29C64/3 93 B33Y50/0 0 B33Y50/0 2 B33Y80/0 0 G06T17/0 0			
Special resin for 3D-printed medical face mask	<u>CN108250704 (A)</u>	2018-07-06	CHU JIANGSHUN BI HONGHAI BI HONGJIAN G OUYANG GUI	SHANGHAI BANZAN NEW MAT CO LTD	C08L67/0 4 B33Y70/0 0 C08K3/32 C08K5/07 C08K5/40 5 C08L51/0 0 C08L67/0 2	B33Y70/00 C08L67/04 C08L2201/06 C08L2203/02 C08L2205/02 C08L2205/03 C08L2205/035 C08L67/04 C08L51/003 C08L67/02 C08K3/32 C08K2003/324 C08K5/18 C08L67/04 C08L51/003 C08L67/02 C08K3/32 C08K2003/324 C08K5/405 C08L67/04 C08L51/003 C08L67/02 C08L33/02 C08L29/04 C08K5/07	CN2016112 36837	20161228
3D printing medical mask	<u>CN105930880 (A)</u>	2016-09-07	WANG KAI REN LEI	SUZHOU OUMU HEALTH MAN CONSULTATION CO LTD	G06K15/0 2 A61D7/04 A61M16/0 6 G06T15/2 0	A61D7/04 A61M16/06 A61M16/0605 G06K15/1848 G06T15/205 A61M2016/0661 G06T2207/1008 1 G06T2215/06	CN2016102 76627	20160429
System and Method for Forming a Custom Medical Mask from a Three-Dimensional Electronic Model	<u>US2008006273 (A1); US8874251 (B2)</u>	2008-01-10	THORNTON W KEITH [US]	THORNTON W. KEITH, AIRWAY TECHNOLOGIES, LLC	A61F2/50	A61M16/06 B29C64/386 G06F30/00 A61M2016/0661 A61M16/0683	US2007076 8457	20070626
STRETCHABLE PRINTED ELECTRONIC SHEETS TO ELECTRICALLY CONNECT UNEVEN TWO DIMENSIONAL AND THREE DIMENSIONAL SURFACES	<u>US2016157363 (A1); US9398705 (B2)</u>	2016-06-02	MOHAMMED ANWAR [US] LIU WEIFENG [US] KURWA MURAD [US]	FLEXTRONICS AP LLC [US]	H05K3/46 H05K1/02 H05K3/12	B29C65/72 B33Y10/00 B33Y80/00 H05K1/0283 H05K1/0284 H05K1/0296 H05K1/092 H05K3/0058 H05K3/125 H05K3/20 B29L2031/3425 H05K1/028 H05K2201/0133 H05K2201/0323	US2014145 58357	20141202
Comfortable medical face guard of high tight height that 3D printed	<u>CN205031701 (U)</u>	2016-02-17	WANG NING LI YIYING	WANG NING LI YIYING	A61M16/0 6		CN2015206 73199U	20150901



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一种3d打印医用面罩及其组成的无创正压通气呼吸机	<u>CN209996976 (U)</u>	2020-01-31	王轶娜, 李亚勇, 黄信刚, 苏晶	中南大学湘雅二医院	A61M16/06 A61M16/00 B33Y80/00		CN201920399972U	20190327
FACIAL MASK AND METHOD OF MAKING	<u>EP3116576 (A1);</u> <u>EP3116576 (B1)</u>	2017-01-18	BACHELDER VANCE D [US] CARRILLO III JOSE [US]	MORPHEUS MEDICAL SOLUTIONS LLC [US]	A61M16/06	A61M16/0605 A61M16/0611 B33Y50/00 B33Y80/00 A61M2016/0661 A61M2207/10 B29C64/112 B29L2031/4835 B29L2031/507 B29L2031/753 B33Y10/00	EP20150713263	20150306
Novel mask	<u>CN104544624 (A)</u>	2015-04-29	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	YANG HAIDAN	A41D13/11 A61M16/06 A62B7/00	A41D13/1107 A61M16/06 A62B7/00	CN201410148185	20140415
3D printing and copying integrated machine for fast preparing personalized mask	<u>CN104960207 (A);</u> <u>CN104960207 (B)</u>	2015-10-07	YANG WEIMIN JIAN RANRAN JIAO ZHIWEI YAN HUA ZHANG YULI ZHANG RUN TAN JING XIE PENGCHENG DING YUMEI	UNIV BEIJING CHEMICAL	B29C67/00 B33Y30/00		CN201510415579	20150715
RAPID PRODUCTION OF CUSTOMIZED MASKS	<u>WO2011049548 (A1)</u>	2011-04-28	MARK PHILLIP E [US]	ABIO INC [US] MARK PHILLIP E [US]	A62B23/06	A61M16/06 A61M2016/0661 A61M2205/0216 A61M2205/0238 A61M2205/3553 A61M2205/3584 A61M2207/10	WO2009US58214	20091021
CUSTOMIZED BREATHING MASK	<u>WO2014075797 (A1)</u>	2014-05-22	DE KRUYFF CORNELIS [NL] EIKELENBOM WILLEM PAUL EDUARD [NL] DE BRUIJN GOVERT MACHIEL [NL]	CPG MEDICAL B V [NL] DE KRUYFF CORNELIS [NL]	A61M16/06 A61M16/00	A61M11/065 A61M16/0003 A61M16/06 A61M16/0616 A61M16/0683 A61M2016/0027 A61M2016/003 A61M2016/0039 A61M2016/0661 A61M2016/103 A61M16/109 A61M16/161 A61M2205/15 A61M2205/3334 A61M2205/3368 A61M2205/3375 A61M2207/00 B29C64/118 B33Y10/00 B33Y80/00	WO2013EP03423	20131113



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FACIAL MASK APPARATUS AND METHOD OF MAKING	<u>WO2014151324 (A1)</u>	2014-09-25	DAVIS LUCY CAROL [US]	DAVIS LUCY CAROL [US]	A61M16/06	A61M16/06 A61M2016/0661 A61M2207/00 A62B18/02	WO2014US25473	20140313
Air filtering device 3D printing method based on human face, and filtering device	<u>CN107369173 (A)</u>	2017-11-21	XIONG RUITONG WANG WEI LEI SHUO	XIONG RUITONG SHANGHAI SHULI INTELLIGENT TECH CO LTD	G06T7/55 B33Y50/00 G06F17/50 G06T17/10	B33Y50/00 G06F30/00 G06T7/55 G06T17/10 G06F2111/06 G06T2207/10004 G06T2207/30201	CN201710148174	20170313
Customized mouth mask and preparation method of the same	<u>CN107038752 (A)</u>	2017-08-11	NI XIN TAI JUN ZHOU GANG WANG PENG PENG HAN QIAN YI GE WENTONG LIU YUANHU ZHANG YAMEI ZHANG JIE GUO YONGLI WANG SHENG CAI LI XIAODAN ZHAO YAWEN	BEIJING CHILDREN'S HOSPITAL AFFILIATED TO CAPITAL MEDICAL UNIV	G06T17/00 A41D13/11 B29C64/386 B33Y50/00 G06K9/00	A41D13/11 B33Y50/00 G06K9/00268 G06T17/00	CN201710224123	20170407
Method for making personally customized mask	<u>CN107006921 (A)</u>	2017-08-04	TIAN BIN	BEIJING SUINENG TECH CO LTD	A41D13/11 G06T17/00	A41D13/1107 G06T17/00	CN201710256954	20170419
3D (three-dimensional) breathing mask and manufacturing method thereof	<u>CN105768279 (A)</u>	2016-07-20	WANG KAI	SHANGHAI OUMU HEALTH MAN CONSULTING CO LTD	A41D13/11 B29C67/00 B33Y10/00 B33Y50/00 B33Y80/00	A41D13/1107 A41D13/1161 B33Y10/00 B33Y50/00 B33Y80/00 A41D2400/32 A41D2400/70	CN201610276628	20160429
Respirator and face mask closing frame	<u>CN104643314 (A)</u>	2015-05-27	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	YANG HAIDAN	A41D13/11 A62B9/06	A41D13/1161 A62B9/06 A41D2300/30	CN201410648812	20141117



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Construction Of A Facial Mask For Air Supply And Air Exchange	<u>US2015217518 (A1)</u>	2015-08-06	CHUN ANDREW YOUNGHO [US] CHUN JAMES JIWEN [US] CHUN ANGELA SOYOUNG [US] CHUN JENNIFER MISEONG [US]	HANKOOKIN INC [US]	B29C67/00 A61M16/06 G05B15/02 G06F17/50	A61M15/08 A61M15/085 A61M16/06 A61M16/1065 A61M16/107 B29C64/386 G06F30/00 A61M2016/0661 A61M16/0683 A61M2207/10 A61M2210/0618 B33Y50/02	US201514612348	20150203
Solid particle protection mask	<u>CN103445329 (A)</u>	2013-12-18	JIAO ZHIWEI LI BO DING YUMEI YANG WEIMIN	UNIV BEIJING CHEMICAL	A41D13/11		CN201310428430	20130918

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Method for manufacturing Anti-fogging pad and mask having the same	<u>KR102021545 (B1)</u>	2019-09-17	JUNG KIHYO CHOI JU HWAN LEE SANG HYUN JANG RINA YEOM SU BIN KANG HYE RIM TJOLLENG AMIR	UNIV ULSAN FOUND IND COOP [KR]	A41H1/02 A41D13/11 A41H43/00 B33Y50/00 B33Y80/00 G06T17/20	A41D13/1107 A41H1/02 A41H43/00 A62B18/08 G06T17/20	KR20180064413	20180604
Mask manufacturing equipment for the same and manufacturing method using the same equipment	<u>KR101957757 (B1)</u>	2019-03-13	AHN GYEONG SU [KR]	AHN GYEONG SU [KR]	A41H1/02 A41D13/11 A41H43/00 A62B18/02 G06T17/20	A41D13/1107 A41H1/02 A41H43/00 B33Y30/00 B33Y50/00 B33Y80/00 G06T17/20	KR20180076064	20180629



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RESPIRATORY PROTECTION DEVICE	<u>US2015352382 (A1)</u>	2015-12-10	JAYARAMAN SUNDARESAN [US] PARK SUNGMEE [US]	GEORGIA TECH RES INST [US]	A62B23/02 A62B7/10 A62B18/02 A62B9/04 A62B18/08	A41D13/11 A41D13/1107 A41D13/1161 A62B7/10 A62B9/00 A62B9/04 A62B18/00 A62B18/02 A62B18/025 A62B18/084 A62B23/00 A62B23/02 A62B23/025 B33Y10/00 B33Y80/00 A41D13/1161	US201514734630	20150609
RESPIRATOR SEALS	<u>WO2017112750 (A1)</u>	2017-06-29	TRUEX BRYAN I [US] MIHAYLOV GUEORGUI M [US]	NEXTTEQ LLC [US]	A61M11/00 A61M16/00 A62B7/00 A62B17/00 A62B18/00 A62B18/02	A61M16/0605 A62B18/02 B29C64/393 G06F30/00 G06T17/20 A61M2016/0661 A62B18/08 B29C64/386 B29L2031/265 B29L2031/768 B33Y50/02 B33Y80/00 G06F30/00 G06T2200/08	WO2016US67984	20161221
Systems and methods for providing custom masks for use in a breathing assistance system	<u>US2008078396 (A1)</u> ; <u>US7904193 (B2)</u>	2008-04-03	JANBAKHS H MAHMOUD [US]	NELLCOR PURITAN BENNETT INC	A62B18/02 B29D99/00	A61M16/06 A61M16/0633 A61M16/0644 A61M2016/0661 A61M2205/0216 A61M2210/0618 B29L2031/4835 B33Y50/00 B33Y80/00	US20060536993	20060929
VIRTUAL MASK ALIGNMENT FOR FIT ANALYSIS	<u>WO2014150739 (A1)</u>	2014-09-25	WANG XIAOLI [US] CHEN HENRY [US] SUN YI [US] DERBY PAUL [US] THIRUVENG ADA HARI [US]	HONEYWELL INT INC [US]	G06F19/00	G06K9/00281 G06K9/6211 G06T19/20 G06T2219/2021	WO2014US24098	20140312
SILICONE NOSE MASK	<u>JP2018042962 (A)</u>	2018-03-22	HAYASHI JUNJI	HAYASHI JUNJI	A62B23/06 A41D13/11 A62B18/02		JP20160194817	20160912
FACEMASK WITH FILTER INSERT FOR PROTECTION AGAINST AIRBORNE PATHOGENS	<u>US2020114178 (A1)</u>	2020-04-16	WATERFORD STEVE [US] LYNN ROBERT HUDSON [CA]	WATERFORD MASK SYSTEMS INC [US]	A62B18/02 A62B18/08 A62B23/02	A62B18/025 A62B18/08 A62B18/082 A62B18/084 A62B23/02 A62B23/025 A41D13/1161 A41D13/1192	US201916593851	20191004



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FACIAL MASK APPARATUS AND METHOD OF MAKING	<u>US2019262567 (A1)</u>	2019-08-29	DAVIS LUCY CAROL [US]	DAVIS LUCY CAROL [US]	A61M16/06 A61B5/00	A61B5/4818 A61B5/6803 A61M16/06 A61M16/0616 A61M16/0644 A61M2016/0661 A61M16/0683 A61M2202/0225 A61M2207/00 A62B18/02	US201916410594	20190513
OXYGEN DELIVERY APPARATUS USING EYEGASS FRAMES	<u>US2020101252 (A1)</u>	2020-04-02	ODDO NICHOLAS LEONARD [US]	AIRES MEDICAL LLC [US]	A61M16/06 G02C5/00 G02C11/00	A61M16/0672 G02C5/001 G02C11/00	US201916522048	20190725
INTERFACE DEVICE FORMABLE BY ADDITIVE MANUFACTURING PROCESS	<u>WO2018065500 (A1)</u>	2018-04-12	HAIBACH RICHARD [NL] HO PETER [NL] CHODKOWSKI LAUREN [NL] GRASHOW JONATHAN [NL]	KONINKLIJKE PHILIPS NV [NL]	A61M16/06 B33Y80/00	A61M16/0605 A61M16/0622 B33Y80/00 A61M16/0622 A61M2207/00	WO2017EP75270	20171004
ORO-NASAL PATIENT INTERFACE FOR TREATING SLEEP DISORDERED BREATHING	<u>WO2019161441 (A1)</u>	2019-08-29	DODDS CHRISTOPHER [AU] HILTON JOHN [AU] KWOK PHILIP [AU]	BESPOKE MEDICAL INNOVATIONS PTY LTD [AU]	A61M16/06	A61M16/06 A61M2016/0661 A61M16/0683 A61M2207/00 B33Y80/00	WO2019AU50132	20190218
High-elasticity breathable radio therapy mask based on 3D printing and manufacturing method of high-elasticity breathable radio therapy mask	<u>CN110124212 (A)</u>	2019-08-16	GOU XIAOXIA ZHANG DAQUAN ZHU LIN WANG JIANWEN XU HUI WU JINZHI	AFFILIATED HOSPITAL OF ZUNYI MEDICAL COLLEGE	A61N5/10 A61M16/06 B33Y10/00 B33Y50/00 B33Y80/00 B33Y50/00 B33Y80/00	A61M16/0605 A61N5/10 B33Y10/00 B33Y50/00 B33Y80/00 A61N2005/1097	CN201910394353	20190513
SUPPORT MEMBER FOR CUSHION OF RESPIRATORY INTERFACE DEVICE	<u>WO2017103724 (A1)</u>	2017-06-22	HO PETER CHI FAI [NL]	KONINKLIJKE PHILIPS NV [NL]	A61M16/06	A61M16/0622 B33Y80/00 A61M2207/00	WO2016IB57344	20161205



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RESPIRATORY INTERFACE DEVICE INCLUDING CUSTOM FEATURES	<u>WO2017102899 (A1)</u>	2017-06-22	GRASHOW JONATHAN SAYER [NL] CHODKOWSKI LAUREN PATRICIA [NL] W SMITH DAVID [NL]	KONINKLIJKE PHILIPS NV [NL]	A61M16/06 A61B5/107 B29C67/00 G06F19/00 G06T19/00	A61B5/107 A61M16/06 A61M16/0605 A61M16/0622 A61M16/0683 A61M16/0688 A61M16/0694 B33Y10/00 B33Y80/00 G06F19/34 G16H20/40 G16H40/60 G16H50/50 A61M16/0616 A61M16/0633 A61M2016/0661 A61M16/0816 A61M16/0858 A61M16/0875 A61M2016/1025 A61M2016/103 A61M16/105 A61M16/1095 A61M16/208 A61M2202/0225 A61M2205/3303 A61M2205/59 A61M2207/00 A61M2207/10 A61M2230/06 A61M2230/432 A61M2230/435 A61M2202/0225 A61M2202/0085	WO2016EP81095	20161215
METHOD OF CUSTOMIZED CONTINUOUS POSITIVE AIRWAY PRESSURE MASK	<u>KR20180060981 (A)</u>	2018-06-07	KIM HYUN JUN	UNIV AJOU IND ACADEMIC COOP FOUND [KR]	A61M16/06 B29C64/386 B33Y50/02	A61B6/03 A61M16/0605 B29C64/386 B29C64/393 B33Y50/02 A61M2016/0661	KR20170149876	20171110
Maskenelement für eine Beatmungsmaske	<u>DE202017104606 (U1)</u>	2017-09-05		STREIFENEDE R ORTHO PRODUCTION GMBH [DE]	A61M16/06 B29C45/00 B33Y80/00 G01B11/00	A61M16/06 A61M16/0605 B33Y80/00 G01B11/00 A61M16/0633 A61M2016/0661 A61M16/0683 A61M2207/00 B29C33/3842	DE201720104606U	20170801
Noninvasive breathing mask manufactured by additive manufacturing technology and manufacturing method thereof	<u>CN107158541 (A)</u>	2017-09-15	WANG XUN ZHAO HONGQING SHEN LUPING	WUXI NO 2 PEOPLE'S HOSPITAL	A61M16/06	A61M16/0605	CN201710541320	20170705



Title	Publication number	Publication date	Inventor(s)	Applicant(s)	International classification	Cooperative Patent Classification	Application number	Date of application
SYSTEMS AND METHODS FOR FABRICATING OBJECTS USING INVESTMENT MOLDING TECHNIQUES	<u>US2015035200 (A1)</u> ; <u>US9750914 (B2)</u>	2015-02-05	KARPAS LESLIE OLIVER [US] RYAN AARON M [US]	METAMASON INC [US]	B29C67/00 B29C67/24	A61M16/0605 A61M16/0666 A61M16/0683 A61M16/0816 A61M16/0875 B29C33/52 B29C64/106 B29C64/386 B29C64/40 B33Y10/00 B33Y50/02 B33Y80/00 G06F30/00 G06K9/00281 G06K9/0061 G06T17/00 A61M2016/0661 A61M2207/00 B29K2101/12 B29K2995/0059 B29K2995/0062	US201414173549	20140205
Wearable protective device	<u>EP2191736 (A2)</u> ; <u>EP2191736 (A3)</u> ; <u>EP2191736 (B1)</u>	2010-06-02	JOHNSTON E CLIVE [GB]	JSP LTD [GB]	A41D13/11 A61F9/02 A62B18/08 A62B18/02 A62B23/02	A41D13/1184 A61F9/029 A41D13/1138 A62B18/02 A62B18/082 A62B18/084	EP20090275104	20091029
Face mask having an air duct connectable to a goggle	<u>US4653124 (A)</u>	1987-03-31	MCNEAL JOSEPH R [US] ROBRAHN DAVID [US]	SCOTT USA [US]	A61F9/02 A61F9/02	A61F9/028 A61F9/029	US19850755456	19850716
Disposable full-face surgical mask	<u>US4296746 (A)</u>	1981-10-27	MASON JR STANLEY I HANDLER MICHAEL D	SURGIKOS	A41D13/11 A61F9/02 A62B18/02 A62B7/10	A41D13/1146 A41D13/1184 A61F9/029 A62B18/02	US19790104948	19791218
Filter mask with eye shield	<u>US5682879 (A)</u>	1997-11-04	BOWERS JOHN LAWRENCE [GB]	RACAL HEALTH & SAFETY LTD [GB]	A41D13/11 A61F9/02 A62B18/08 A62B7/10	A41D13/1115 A41D13/1123 A41D13/1161 A41D13/1184 A61F9/029 A62B18/082	US19960684273	19960717
BIOHAZARD MASK SUITABLE FOR CIVILIANS	<u>WO2004066764 (A2)</u> ; <u>WO2004066764 (A3)</u> ; <u>WO2004066764 (A8)</u>	2004-08-12	FRERIKS DAVID R [US] CZUBA LEONARD F [US]	BIOKIDZ USA [US] FRERIKS DAVID R [US] CZUBA LEONARD F [US]	A41D1/00 A62B17/04 A62B18/00 A62B18/02 A62B18/08 A62B18/02 A41D A41D	A62B17/04 A62B18/00 A62B18/025 A62B18/082	WO2004US01256	20040120



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Electronic human breath filtration device	<u>US2004216745 (A1);</u> <u>US7392806 (B2)</u>	2004-11-04	YUEN PETER SILTEX [US] YUEN CHAN BESSIE M [US]	YUEN PETER SILTEX, YUEN CHAN BESSIE M	A62B19/00 A62B7/10	A62B19/00	US20030428026	20030430

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Detachable/detachable face shield for surgical mask	<u>US5584078 (A)</u>	1996-12-17	SABOORY MAJID [US]	SABOORY, MAJID	A41D13/11 A61F9/04 A62B18/08 A62B18/00 A61F9/04 A62B18/02	A41D13/1184 A61F9/045 A62B18/082	US19940340547	19941116
RESPIRATOR THAT INCLUDES AN INTEGRAL FILTER ELEMENT, AN EXHALATION VALVE, AND IMPACTOR ELEMENT	<u>WO0224279 (A1)</u>	2002-03-28	JAPUNTICH DANIEL A MCCULLOUGH NICOLE V	3M INNOVATIVE PROPERTIES CO [US]	A61B19/00 A61M16/06 A62B18/02 A62B18/10 A62B23/02 A62B18/10	A41D13/1138 A62B18/10 A62B23/025	WO2001US01915	20010119
Reduced fogging absorbent core face mask	<u>US6062220 (A)</u>	2000-05-16	WHITAKER JAMES F [US] HOGE BRIAN G [US]	AMERICAN THRESHOLD IND INC [US]	A41D13/11 A62B18/08 A62B23/02 A62B18/00	A41D13/11 A41D13/1184 A62B18/08 A62B23/025	US19980037492	19980310
Method and device to monitor infectious patients	<u>GB2525643 (A);</u> <u>GB2525643 (B)</u>	2015-11-04	DHEDA KEERTAN UNKHA JAIRAM [ZA] THERON GRANT DE VOS [ZA] JOHN LESTER RYAN [ZA] SIVARASU SUDESH [ZA]	UNIV CAPE TOWN [ZA]	A61B5/00 G06F19/00	A41D1/002 A41D13/11 A61B5/002 A61B5/097 A61B5/6803 G06F19/3437 G06F19/3493 G16H50/30 G16H50/80 A41D13/1281 A61B2560/0242	GB20140007666	20140501



A COLLECTION DEVICE FOR SAMPLING EXHALED AIRSTREAMS	<u>WO2008092 198 (A1)</u>	2008-08-07	TOVEY EUAN ROGER [AU]	TOVEY EUAN ROGER [AU]	A62B7/10 A62B18/0 2 A62B23/0 2	A61B5/097 A61B5/411 A61B10/00 A62B18/025 A61B2010/00 87	WO2008AU 00100	20080131
Face mask	<u>US448854 7 (A)</u>	1984-12-18	MASON BEATRICE R [US]	BOWERS JR KENNETH R [US]	A41D13/1 1 A62B7/00	A41D13/11	US1982041 5748	19820907
DETECTION OF CONDITIONS BY ANALYSIS OF GASES OR VAPOURS	<u>WO9839470 (A1)</u>	1998-09-11	PAYNE PETER ALFRED [GB] PERSAUD KRISHNA CHANDRA [GB] SYMS ALLAN JOHN [GB]	AROMASCAN PLC [GB] PAYNE PETER ALFRED [GB] PERSAUD KRISHNA CHANDRA [GB] SYMS ALLAN JOHN [GB]	C12Q1/04 G01N33/4 97 G01N33/6 8 G01N33/9 8 C12Q1/04 G01N33/9 8	C12Q1/04 G01N33/497 G01N33/6893 G01N33/98 G01N2800/30 7	WO1998GB 00510	19980306
Facility Disease or Infection Control Method, System and Apparatus	<u>US20111310 54 (A1)</u>	2011-06-02	THEOBALD DANIEL [US]		G06Q50/0 0 G06K7/00 G06Q10/0 0	G06Q50/22	US2009062 6964	20091130
METHODS OF USING THERMOPLA STIC POLYURETHA NES IN SELECTIVE LASER SINTERING AND SYSTEMS AND ARTICLES THEREOF	<u>WO2015109 143 (A1)</u>	2015-07-23	VONTORCIK JR JOSEPH J [US] VERMUNIC HT GEERT [BE] AULT EDWARD W [US] PLESSERS AN [BE]	LUBRIZOL ADVANCED MAT INC [US]	C08L75/0 6 B29C67/0 0 C08L75/0 8	B29C64/153 B33Y10/00 B33Y30/00 B33Y70/00 B33Y80/00 C08G18/3206 C08G18/4009 C08G18/42 C08G18/4277 C08G18/48 C08G18/664 C08G18/6674 C08G18/76 C08G18/7664 C08K5/053 C08L75/06 C08L75/08 B29K2075/00 B29K2105/25 1 B29K2995/00 12 B29L2031/753 C08L2203/02	WO2015US 11693	20150116
SYSTEM AND METHODS FOR INCREASING EFFICIENCY IN RAPID PROTOTYPIN G PROCESSES	<u>US20090370 11 (A1); US8019465 (B2)</u>	2009-02-05	SPIRIDONO V ANTON [RU] SAMBU SHIVA P [US] BOROVINSK IH ARTEM [US] DHAGAT MANEESH [US] IVANOV VASILIY [RU]	ALIGN TECHNOLOGY, INC	G06F19/0 0	B29C64/124 B33Y50/00 G06F7/00 B33Y80/00	US2007083 1779	20070731

