U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1869

OCTOBER 2, 2007

PROJECT X-6295

The following classification changes will be effected by this order:

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	Ex'r Search <u>Room</u>
Abolished:				
Digests:	435	1-50 51	1639 1631	RND0000A51 RND0000A51
Established:	506 (New)	1-32 33-40 41-43	1639 1743 1639	ELEC0000 ELEC0000 ELEC0000

The following classes are also impacted by this order:

204, 260, 420, 422, 423, 424, 436, 502, 520, 530, 532, 536, 540, 585, 702, 703, 977

This order includes the following:

- CLASSIFICATION MANUAL CHANGES A.
- C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1869

OCTOBER 2, 2007

PROJECT X-6295

P.	Kate	White	
	P.	P. Kate	P. Kate White

Examiners: Padmashri Ponnaluri, Sue Liu

Editor: Almeta Y. Quinn

Editorial Assistant: Yvonne Smith

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

OCTOBER 2007

1.1	DIFFERENTIATED TISSUE OR ORGAN OTHER THAN BLOOD, PER SE, OR DIFFERENTIATED	·	cyclic reaction, cascade reaction, etc.)
	TISSUE OR ORGAN MAINTAINING; COMPOSITION THEREFOR	7.92	Heterogeneous or solid phase assay system (e.g., ELISA, etc.)
1.2	.Including perfusion; composition	7.93	Competitive assay
	therefor	7.94	Sandwich assay
1.3	.Including freezing; composition	7.95	Indirect assay
5	. UNELSION DE OD OD OD CDEEN IN A	8	.Involving luciferase
Z	MAINTAINING BLOOD OR SPERT IN A PHYSIOLOGICALLY ACTIVE STATE OR COMPOSITIONS THEREOF OR THEREFOR OR	9	.Geomicrobiological testing (e.g., for petroleum, etc.)
	METHODS OF IN VITRO BLOOD CELL	10	.Involving uric acid
	SEPARATION OR TREATMENT	11	.Involving cholesterol
3	CONDITION RESPONSIVE CONTROL PROCESS	12	Involving urea or urease
4	MEASURING OR TESTING PROCESS INVOLVING ENZYMES OR MICRO-ORGANISMS; COMPOSITION OR TEST STRIP THEREFORE;	13	.Involving blood clotting factor (e.g., involving thrombin, thromboplastin, fibrinogen, etc.)
	PROCESSES OF FORMING SUCH COMPOSITION	14	.Involving glucose or galactose
	OR TEST STRIP	15	Involving transferase
5	.Involving virus or bacteriophage	16	Involving transaminase
6	.Involving nucleic acid	17.	Involving creatine phosphokinase
7.1	.Involving antigen-antibody binding,	18	.Involving hydrolase
	specific binding protein assay or	19	Involving esterase
	specific ligand-receptor binding	20	Involving cholinesterase
	assay	21	Involving phosphatase
7.2	Involving a micro-organism or cell	. 22	Involving amylase
	membrane bound receptor or cell	23	Involving proteinase
	membrane bound antibody or	24	Involving peptidase
	microbial lysate	25	.Involving oxidoreductase
7.21	Animal cell	26	Involving dehydrogenase
7.22	Parasite or protozoa	27	Involving catalase
7.23	Tumor cell or cancer cell	28	Involving peroxidase
7.24	Leukocyte (e.g., lymphocyte,	29	.Involving viable micro-organism
	granulocyte, monocyte, etc.)	30	Methods of sampling or inoculating or
7.25 7.3	Erythrocyte Flagellar-antigen or pili-antigen		spreading a sample; methods of physically isolating an intact
7.31	Fungi (e.g., yeast, mold, etc.)		micro-organism
7.32	Bacteria or actinomycetales	31	Testing for sterility condition
7.33	Staphylococcus	32	Testing for antimicrobial activity of
7.34	Streptococcus		a material
7.35	Salmonella	33	. Using multifield media
7.36	Sexually transmitted disease (e.g., chlamydia, syphilis, gonorrhea,	34	Determining presence or kind of micro-organism; use of selective media
- - -	ett.) Destauristis seli	35	Using radioactive material
1.37	Escherichia coll	36	Streptococcus; staphylococcus
7.4	To identify an enzyme of isotenzyme	37	Nitrate to nitrite reducing bacteria
7.5	True liting a modified engine (a g	38	Enterobacteria
7.0	abzyme, recombinant, chemically	39	Quantitative determination
	altered, etc.)	40	Using multifield media
7.7	Assay in which a label present is an apoenzyme, prosthetic group, or enzyme cofactor	40.5	.Involving fixed or stabilized, nonliving microorganism, cell, or tissue (e.g., processes of staining,
7.71	Assay in which a label present is an enzyme inhibitor or functions to	40 51	stabilizing, dehydrating, etc.; compositions used therefore, etc.) Involving a monolayer, smear or
7.72	Assay in which a label present is an enzyme substrate or substrate	10.01	suspension of microorganisms or cells
	analogue	40.52	Involving tissue sections
7.8	Involving nonmembrane bound receptor binding or protein binding other than antigen-antibody binding		
7.9	Assay in which an enzyme present is a label		· · ·
7.91	Enzyme produces product which is part of another reaction system (e.g.,		

OCTOBER 2007

41	MICRO-ORGANISM, TISSUE CELL CULTURE OR	69.6	Blood proteins
	ENZYME USING PROCESS TO SYNTHESIZE A	69.7	Fusion proteins or polypeptides
· .	DESIRED CHEMICAL COMPOUND OR COMPOSITION	69.8	Signal sequence (e.g., beta-galactosidase, etc.)
42	.Process involving micro-organisms of	69.9	Yeast derived
	different genera in the same process, simultaneously	70.1	Using tissue cell culture to make a protein or polypeptide
43	.Preparing compound having a	70.2	Fused or hybrid cells
	1-thia-4-aza-bicyclo (3.2.0) heptane	70.21	Producing monoclonal antibody
	ring system (e.g., penicillin, etc.)	70.3	Animal tissue cell culture
44	By desacylation of the substituent in	70.4	Blood (lymphoid) cell culture
	6-position	70.5	Producing interferons
45	By acylation of the substituent in 6-position	71.1	.Using a micro-organism to make a
46	In presence of phenyl acetic acid or	71 0	Procenyotic migro-organism
	phenyl acetamide or their	71 3	Antibiotic or toxin
	derivatives	72.5	Propering compound containing
47 .	.Preparing compound having a 1-thia-5-aza-bicyclo (4.2.0) octane	72	saccharide radical
•	ring system (e.g., cephalosporin, etc.)	13	lincomycin, etc.)
48	Di-substituted in 7-position	74	Preparing O-glycoside (e.g.,
49	Cephalosporin C	85	glucoslaes, etc.)
50	By acylation of the substituent in the 7-position	75	directly bonded to a nonsaccharide
51	By desacylation of the substituent in the 7-position		bridged-ring system which contains
52	Preparing compound containing a		a nonsaccharide heterocyclic ring
	cyclopentanohydrophenanthrene		(e.g., coumernycin, novobiocin,
	nucleus; nor-, homo-, or D-ring	76	The betero ring has eight or more
	lactone derivatives thereof	70	ring members and only oxygen as
53	Containing heterocyclic ring		ring hetero atoms (e.g.,
54	Acting on D-ring		erythromycin, spiramycin,
55	Acting at 17-position		nystatin, etc.)
56	Hydroxylating at 17-position	77	Oxygen atom of the saccharide radical
57	Hydroxylating at 16-position		is directly linked through only
58	Hydroxylating		acyclic carbon atoms to a
59	At 11-position		nonsaccharide heterocyclic ring
60	At 11 alpha position		(e.g., bleomycin, phleomycin,
61	Dehydrogenating; dehydroxylating	-	etc.)
62	Forming an arvl ring from "A" ring	78	Uxygen atom of the saccharide radical
63	.Preparing compound containing a prostaglandin nucleus		ring system having three or more
64	Preparing compound other than		dauomycin, adriamycin, etc.)
	<pre>saccharide containing a tetracycline nucleus (e.g., naphacene, etc.)</pre>	79	Oxygen atom of the saccharide radical is bonded to a cyclohexyl radical
65	.Preparing compound other than		(e.g., kasugamycin, etc.)
	saccharide containing a gibberellin nucleus (i.e., gibbane)	80	Cyclohexyl radical is substituted by
66	.Preparing compound other than		destomycin, neamin, etc.)
	saccharide containing alloxazine or isoalloxazine nucleus	81	Cyclohexyl radical is attached
67	.Preparing compound containing a carotene nucleus (i.e., carotene)		two or more N-C(=N)-N radicals (e.g., streptomycin, etc.)
68.1	Enzymatic production of a protein or polypeptide (e.g., enzymatic hvdrolysis, etc.)	82	Having two saccharide radicals bonded through only oxygen to adjacent ring carbons of the
69.1	.Recombinant DNA technique included in method of making a protein or polypeptide		cyclohexyl radical (e.g., ambutyrosin, ribostamycin, etc.)
69.2	Enzyme inhibitors or activators		
69.3	Antigens		
69.4	.Hormones and fragments thereof		
69.5			
69.51	Interferons		
69.52	Interleukins		· · ·

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435-3

OCTOBER 2007

	MICRO-ORGANISM, TISSUE CELL CULTURE OR ENZYME USING PROCESS TO SYNTHESIZE A DESIDED CHEMICAL COMPOIND OR	94	Produced by the action of an isomerase (e.g., fructose by the action of xylose isomerase on glucose, etc.)
	COMPOSITION Preparing compound containing	95	Produced by the action of a beta-amylase (e.g., maltose by the action of beta-amylase on amylase.
	saccharide radical Preparing O-glycoside (e.g.,		etc.)
	glucosides, etc.)	96	Produced by the action of an exo-1.4 alpha glucosidase (e.g., dextrose
	is bonded to a cyclohexyl radical (e.g., kasugamycin, etc.)		by the action of glucoamylase on starch, etc.)
	Cyclohexyl radical is substituted by two or more nitrogen atoms (e.g., destomycin, neamin, etc.)	97	Produced by the action of a glycosyl transferase (e.g., alpha, beta, gamma-cyclodextrins by the action of glycosyl transferase on starch.
	Having two saccharide radicals bonded through only oxygen to	99	etc.) Produced by the action of an alpha-1
,	adjacent ring carbons of the cyclohexyl radical (e.g., ambutyrosin, ribostamycin, etc.)		6-glucosidase (e.g., amylose debranched amylopectin by the action of pullulanase, etc.)
83	Containing three or more	99	Produced by the action of a
-	saccharide radicals (e.g., liquidomycin, neomycin,		carbohydrase (e.g., maltose by the action of alpha amylase on starch,
	lividomycin, etc.)		etc.)
84	saccharide	100	Disaccharide
85	N-alvcoside	101	Polysaccharide of more than five
86	Cobalamin (i.e., vitamin B12, LLD		saccharide radicals attached to each other by glycosidic bonds
97	Mucleogide	102	Pullulan
88	Having a fused ring containing a	103	Dextran
	six-membered ring having two N-atoms in the same ring (e.g.,	104	Xanthan; i.e., xanthomonas-type heteropolysaccharides
	purine nucleosides, etc.)	105	Monosaccharide
89	Nucleotide	106	Preparing alpha or beta amino acid or
90	Dinucleotide (e.g., NAD, etc.)		substituted amino acid or salts
91.1	Polynucleotide (e.g., nucleic acid, oligonucleotide, etc.)	107	Proline; hydroxyproline; histidine
91.2	Acellular exponential or geometric amplification (e.g., PCR, etc.)	108	Tryptophan; tyrosine; phenylalanine; 3,4 dihydroxyphenylalanine
91.21	Involving the making of multiple RNA copies	109	Aspartic acid (asparaginic acid); asparagine
91.3	Polvnucleotide contains only	110.	Glutamic acid; glutamine
	ribonucleotide monomers	111	Utilizing biotin or its derivatives
91.31	Involving catalytic ribonucleic acid	112	Utilizing surfactant fatty acids or fatty acid esters (i.e., having seven or more atoms)
91.32	Prepared from virus, prokaryotic	113	Methionine; cvsteine; cvstine
01 22		114	Citrulline; arginine; ornithine
91.33 91.4	Modification or preparation of a	115	Lysine; diaminopimelic acid; threonine; valine
91.41	By insertion or addition of one	116	Alanine; leucine; isoleucine; serine; homoserine
91 42	The increduces	117	.Preparing heterocyclic carbon compound
	nucleotide or nucleotides from a vector		having only O, N, S, Se, or Te as ring hetero atoms
91.5	Acellular preparation of	118	Containing two or more hetero rings
01 51	polynucleotide	119	Containing at least two hetero rings bridged or fused among themselves
91,91 01 FO	material or intermediate		or bridged or fused with a common carbocyclic ring system, (e.g.,
91.52	invoiving a ligase (6.)		rifamycin, etc.)
00 AT'23	Involving a hydrolase (3.)		
92	naving a rused ring containing a six-membered ring beving two		
	N-atoms in the same ring (e.g., purine based mononucleotides, etc.)		
93	Mashing or wort making		
	# Title Change		@ Indent Change

* Newly Established Subclass

OCTOBER 2007

	MICRO-ORGANISM, TISSUE CELL CULTURE OR ENZYME USING PROCESS TO SYNTHESIZE A DESIRED CHEMICAL COMPOUND OR	1 1
	COMPOSITION Preparing heterocyclic carbon compound having only O, N, S, Se, or Te as	1
	ring hetero atoms	T
120	.Nitrogen or oxygen hetero atom and at	1
	least one other diverse hetero ring	1
101	atom in the same ring	1
121		1
122	Containing six-membered hetero fing	1
123	Oxygen as only ring netero atom	1
124	containing a hetero ring of at least seven ring members (e.g., zearalenone, macrocyclic lactones, etc.)	1
125 ·	Containing six-membered hetero ring (e.g., fluorescein, etc.)	1
126	Containing five-membered hetero ring (e.g., griseofulvin, etc.)	1
127	.Preparing compound containing at least three carbocyclic rings	1
128	Preparing nitrogen-containing organic compound	1
129	Amide (e.g., chloramphenicol, etc.)	1
130	.Preparing sulfur-containing organic compound	1
131	.Preparing organic compound containing a metal or atom other than H, N, C, O, or halogen	1
132	.Preparing oxygen-containing organic compound	1 4
133	Containing quinone nucleus (i.e., quinoid structure)	4
134	Fat; fatty oil; ester-type wax; higher fatty acid (i.e., having at least seven carbon atoms in an unbroken chain bound to a carboxyl group); oxidized oil or fat	4 4
135	Carboxylic acid ester	
136	Containing a carboxyl group	4
137	Sugar acid having five or more carbon atoms (i.e., aldonic,	4
138	Alpha-ketogulonic acid (i.e., 2-ketogulonic acid)	4
139	Lactic acid	4
140	Acetic acid	4
141	Propionic or butyric acid	4
142	Polycarboxylic acid	4
143	Having keto group (e.g., alpha-ketoqlutaric acid, etc.)	4
144	Tricarboxylic acid (e.g., citric acid, etc.)	4
145	Dicarboxylic acid having four or less carbon atoms (e.g., fumaric, maleic, etc.)	4 4
146	Hydroxy carboxylic acid	
147	Containing carbonyl group	
148	Ketone	
149	Cyclopentanone or cyclopentadione containing compound	
150	Acetone containing product	
151	Substrate contains grain or cereal	
	material	

152	Substrate contains protein as nitrogen source
153	Substrate contains inorganic
154	Substrate contains inorganic
194	compound, other than water
155	Containing hydroxy group
156	Aromatic
157	Acyclic
158	Polyhydric
159	Glycerol
160	Butanol
161	Ethanol
162	Multiple stages of fermentation:
101	multiple types of micro-organisms or reuse of micro-organisms
163 [.]	Produced as by-product, or from waste, or from cellulosic material substrate
164	Substrate contains sulphite waste liquor or citrus waste
165	Substrate contains cellulosic material
166	.Preparing hydrocarbon
167	Only acyclic
168	.Preparing element or inorganic compound except carbon dioxide
169	.Using actinomycetales
170	.Using bacteria
171	.Using fungi
440	PROCESS OF MUTATION, CELL FUSION, OR GENETIC MODIFICATION
441	.Mutation employing a chemical mutagenic agent
442	By replacement of standard nucleic
	acid base with base analog (e.g., 5-bromouracil, etc.)
443	By use of intercalating agent (e.g., acridine orange, etc.)
444	By use of alkylating agent (e.g., nitrosoguanidine, etc.)
445	By use of oxidative deamination agent (e.g., nitrous acid, etc.)
446	.Mutation employing radiation or electricity
447	X-ray irradiation
448	Ultraviolet irradiation
449	.Fusion of cells
450	Employing electric current
451	One of the fusing cells is a human antibody-producing cell
452	One of the fusing cells is a mouse antibody-producing cell
453	
454	One of the fusing cells is a microorganism (e.g., prokaryote, fungus, etc.)

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

OCTOBER 2007

molecule into or rearrangement of nucleic acid within an animal cellpathogenicity456The polynucleotide is encapsidated within a virus or viral coatPlasmid or episome cont which complements an deficiency mutation457Helper virus is present482Plasmid or episome cont which complements an deficiency mutation458Helper virus is present482Plasmid or episome cont which confers resista silicon, selenium, or toxicity458The polynucleotide is coated with or encapsulated within a lipid containing material (e.g., liposome, etc.)483Yeast is a host for the episome459Involving particle-mediated transfection (i.e., biolistic transfection)484Mycelial fungus is a ho plasmid or episome460Involving laser treatment of the cell before or during transfection485Microorganism of the ge episome461Involving electroporation486Microorganism of the ge	ains a gène nutritional ains a gene ance to metal, c tellurium
nucleic acid within an animal cell481Plasmid or episome cont456The polynucleotide is encapsidated within a virus or viral coatwhich complements a r deficiency mutation457Helper virus is present482Plasmid or episome cont which complements a r deficiency mutation458Helper virus is present482Plasmid or episome cont which confers resista silicon, selenium, or toxicity458The polynucleotide is coated with or encapsulated within a lipid containing material (e.g., liposome, etc.)483Yeast is a host for the episome459Involving particle-mediated transfection (i.e., biolistic 	ains a gene nutritional ains a gene ance to metal, c tellurium
457Helper virus is present482Plasmid or episome cont which confers resista silicon, selenium, or toxicity458The polynucleotide is coated with or encapsulated within a lipid containing material (e.g., liposome, etc.)Plasmid or episome cont which confers resista silicon, selenium, or toxicity459Involving particle-mediated transfection (i.e., biolistic before or during transfection483Yeast is a host for the episome460Involving laser treatment of the cell 	ains a gene ance to metal, r tellurium
458The polynucleotide is coated with or encapsulated within a lipid containing material (e.g., liposome, etc.)which confers resists silicon, selenium, or toxicity459Involving particle-mediated transfection (i.e., biolistic 	ance to metal. r tellurium
encapsulated within a lipid containing material (e.g., liposome, etc.)toxicity459Involving particle-mediated transfection (i.e., biolistic 	
liposome, etc.)483Yeast is a host for the episome459Involving particle-mediated transfection (i.e., biolistic transfection)484Mycelial fungus is a host plasmid or episome460Involving laser treatment of the cell before or during transfection485Microorganism of the ge is a host for the pla episome461Involving electroporation486Microorganism of the ge episome	
459 Involving particle-mediated transfection (i.e., biolistic transfection) 484 Mycelial fungus is a hop plasmid or episome 460 Involving laser treatment of the cell before or during transfection 485 Microorganism of the ge is a host for the pla episome 461 Involving electroporation 486 Microorganism of the ge	plasmid or
460 Involving laser treatment of the cell 485 Microorganism of the getting transfection 461 Involving electroporation is a host for the plate 461 Involving electroporation episome 462 Microorganism of the getting electroporation 486	st for the
461Involving electroporation 486Microorganism of the ge	nus Bacillus asmid or
	enus
462Involving site-specific recombination Streptomyces is a hose (e.g., Cre-lox, etc.) plasmid or episome	st for the
463Involving general or homologous recombination (e.g., gene 487Microorganism of the ge Brevibacterium or the	nus e genus
464Involving gene duplication within the plasmid or episome	host for the
co-amplification, etc.) 488Microorganism of the ge	nus
465Involving co-transfection plasmid or episome	tor the
466The polynucleotide is a shuttle vector 489Plural nonidentical pla or a transiently replicating hybrid introduced into a hor	ısmids are st
vector microorganism or cult 467Introducing an oncogene to establish a (e.g., plasmid is par cell line library, etc.)	cure thereof rt of a
468 .Introduction of a polynucleotide 490The polynucleotide is an molecule into or rearrangement of a linear fragment	ı unbranched
nucleic acid within a plant cell 173.1 TREATMENT OF MICRO-ORGANIS	MS OR ENZYMES
469Introduction via AgrobacteriumWITH ELECTRICAL OR WAVE470Introduction via electroporation,MAGNETISM, SONIC WAVES,	ENERGY (E.G., ETC.)
mediated insertion, or injection	
471 .Introduction of a polynucleotide attenuation, etc.)	e.g.,
molecule into or rearrangement of 173.4 .Cell membrane or cell sur	face is target
(e.g., bacteria, protozoa, 173.5 Membrane permeability in	creased
bacteriophage, etc.) 173.6 Electroporation	
472 The polynucleotide is encapsidated 173.7 Lytic effect produced (e disruption of cell mer	.g., mbrane for
bacteriophage coat, or transducing release of subcellular particle nucleic acids, etc.)	r parts; e.g.,
473 The polynucleotide contains a 173.8 Metabolism of micro-organ (e.g., growth enhanceme	uism enhanced ent or
474 The polynucleotide is a cosmid increased production of product)	E microbial
475 The polynucleotide is unencapsidated product?	i, or
476The polynucleotide is a plasmid or 174 CARRIER-BOUND OR IMMOBILIZ	organisms LED ENZYME OR
477Plasmid or episome contains DNA MICROBIAL CELL; CARRIER- IMMOBILIZED CELL; PREPAR	-BOUND OR RATION THEREOF
to bacteriophage, viral, or 175 .Multi-enzyme system	
chromosomal DNA within a 176 .Enzyme or microbial cell microorganism on or in an inorganic o	is immobilized carrier
478Plasmid or episome contains at least 177 .Enzyme or microbial cell part of a gene encoding a on or in an organic can restriction endonuclease or modification enzyme	is immobilized crier
479Plasmid or episome confers the ability to utilize directly a compound which a wild type microorganism is unable to utilize	

OCTOBER 2007

	CARRIER-BOUND OR IMMOBILIZED ENZYME OR MICROBIAL CELL; CARRIER-BOUND OR IMMOBILIZED CELL: DEEDADATION THEREOF	208	Acting on alpha-galatose-glycoside bond (e.g., alpha-galactosidase, etc.)
	Enzyme or microbial cell is immobilized on or in an organic carrier	209	Acting on beta-1, 4-glucosidic bond (e.g., cellulase, etc. (3.2.1.4))
178	Carrier is carbohydrate	210	Acting on alpha-1, 6-glucosidic bond (e.g., isoamylase, pullulanase,
T ()	derivative thereof		etc.)
180	Carrier is synthetic polymer	211	Dextranase (3.2.1.11)
181	Attached to the carrier via a bridging agent	212	Acting on peptide bond (e.g., thromboplastin, leucine amino-peptidase, etc., (3.4))
182	Enzyme or microbial cell is entrapped	213	Trypsin: chymotrypsin
	within the carrier (e.g., gel,	214	Thrombin
1.00	· nollow libre)	215	Irokinase
183	ENZYME (E.G., LIGASES (0.), ETC.), DOOFNIZYME, COMPOSITIONS THEREFOR.	216	Streptokinase
	PROCESS FOR PREPARING, ACTIVATING,	210 .	Plasmin (i e fibrinolygin)
	TNHIBITING, SEPARATING, OR PURIFYING	217	Elastaso
	ENZYMES	210	
184	Enzyme inactivation by chemical	219	Proteinase
	treatment	220	Derived from bacteria
185	Malt	221	Bacteria is bacillus
186	Pancreatin	222	Bacillus subtilus or bacillus
187	Preparing granular- or free-flowing	202	
	enzyme composition	223	Derived from fungi
188	.Stablizing an enzyme by forming a	224	From yeast
	mixture, an adduct or a composition,	225	From aspergillus
	or formation of an adduct or enzyme conjugate	226	Derived from animal tissue (e.g., rennin, etc.)
188.5	Catalytic antibody	227	Acting on carbon to nitrogen bond
189	.Oxidoreductase (1.) (e.g., luciferase)		other than peptide bond (3.5)
190	Acting on CHOH group as donor (e.g., glucose oxidase, lactate	228	Acting on a linear amide linkage in linear amide
	dehydrogenase (1.1))	229	Asparaginase
191	Acting on nitrogen-containing compound	230	Penicillin amidase
192	as donor (1.2, 1.5, 1.7) Acting on hydrogen peroxide as	231	Acting on amide linkage in cyclic amides (e.g., penicillinase, etc.)
	acceptor (1.11)		(3.5.2)
193	.Transferase other than ribonuclease	232	Lyase (4.)
	(2.)	233	.Isomerase (5.)
194	Transferring phosphorus containing group (e.g., kineases, etc.(2.7))	234 235.1	Glucose isomerase VIRUS OR BACTERIOPHAGE, EXCEPT FOR VIRAL
195	.Hydrolase (3.)		VECTOR OR BACTERIOPHAGE VECTOR;
196	Acting on ester bond (3.1)		COMPOSITION THEREOF; PREPARATION OR
197	Carboxylic ester hydrolase (3.1.1)		PURIFICATION THEREOF; PRODUCTION OF
198	Triglyceride splitting (e.g.,	0.2.6	VIRAL SUBUNITS; MEDIA FOR PROPAGATING
199	lipase, etc. (3.1.1.3)) Ribonuclease (3.1.4)	236	viral subunits
200	Acting on alveosvi compound (3.2)	237	By serial passage of virus
201	Acting on alpha-1 4-alucosidic bond	238	. By chemical treatment
201	(e.g., hvaluronidase, invertase,	239	.Recovery or purification
	amylase, etc. (some 3.2.1))	325	ANIMAL CELL, PER SE (E.G., CELL LINES,
202	Alpha-amylase, microbial source		ETC.); COMPOSITION THEREOF; PROCESS
203	Fungal source		OF PROPAGATING, MAINTAINING OR
204	Alpha-amylase, plant source (3.2.1.1)		COMPOSITION THEREOF; PROCESS OF SOLATING OR SEPARATING AN ANIMAL
205	Glucoamylase (3.2.1.3)		CELL OR COMPOSITION THEREOF; PROCESS
206	Acting on beta-1, 4 link between		OF PREPARING A COMPOSITION CONTAINING
•	N-acetylmuramic acid and 2-acetylamino 2 deoxy-D-glucose		AN ANIMAL CELL; CULTURE MEDIA THEREFORE
	(e.g., lysozyme, etc.)	326	.Animal cell, per se, expressing
207	Acting on beta-galatose-glycoside bond (e.g., beta-galactosidase,		immunoglobulin, antibody, or fragment thereof
	euc.;	•	

@ Indent Change & Position Change

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

435-7

OCTOBER 2007

	ANIMAL CELL, PER SE (E.G., CELL LINES,	338	Binds an enzyme
	ETC.); COMPOSITION THEREOF; PROCESS	339	Binds a virus or component or product
	OF PROPAGATING, MAINTAINING OR		thereof (e.g., virus associated
	PRESERVING AN ANIMAL CELL OR		antigen, etc.)
	COMPOSITION THEREOF; PROCESS OF	339.1	Binds a retrovirus or component or
	ISOLATING OR SEPARATING AN ANIMAL		HTIN etc.)
	CELL OR COMPOSITION THEREOF; PROCESS	340	Binda e bestorium or similer
	OF PREPARING A COMPOSITION CONTAINING	. JHU	microorganism or component or
	AN ANIMAL CELL; CULTURE MEDIA		product thereof (e.g.,
	THEREFORE		Streptococcus, Legionella,
	Animal cell, per se, expressing		Mycoplasma, bacterium associated
	immunogiobulin, antibody, or		antigen, exotoxin, etc.)
327	Tromunoglobulin or antibody is	341	Binds a fungus or plant cell or
52.1	anti-idiotypic	. ·	le q fungus associated antigen.
328	Immunoglobulin or antibody is		etc.)
	chimeric, mutated, or a recombined	342	Binds a parasitic protozoan or
	hybrid (e.g., bifunctional,		metazoan cell or component or
	bispecific, rodent-human chimeric,		product thereof; (e.g.,
	single chain, rFv, immunogiobuin		Dirofilaria, Eimeria, Coccidia,
220	Turminoglobulin or antibody binds an		Trichinella, parasite cell surface
329	oligosaccharide structure other	242	Rinda a hemotopoistia cell en
	than nucleic acid	343	component or product thereof
330	Immunoglobulin or antibody binds an		(e.g., erythrocyte, granulocyte,
	expression product of a cancer		macrophage, monocyte, platelet,
	related gene or fragment thereof		myelogenous leukemia cell, bone
	(e.g., oncogene, proto-oncogene,		marrow stem cell, granulocytic
201	etc.)		cell surface antigen, hemoglobin,
331	immunoglobulin or antibody binds a	3/3 1	Rinda a lumphonutia or
	sequence	543.1	lymphocytic-like cell or
332			component or product thereof
000	microorganism or normal or mutant		(e.g., B cell, B-lineage bone
	component or product thereof (e.g.,		marrow cell, null cell, natural
	animal cell, cell surface antigen,		killer cell, B-lymphoblastoid
	secretory product, etc.)		ceil, B-lineage, acute
333	Binds a nucleic acid or derivative or		B-lymphocytic cell surface
	DNA-RNA, hybrid, nucleotide.		antigen, etc.)
	nucleoside, carcinogen-DNA adduct,	343.2	Binds a T-lymphocytic cell or
	etc.)		component or product thereof
334	Binds a receptor (e.g., transferrin		(e.g., T-cell, thymocyte,
	receptor, Fc receptor,		"I'-lineage bone marrow cell,
	dihydropyridine receptor, 1L-2		acute lymphoblastic leukemia
225	Pinda a lumphoking sutoking or		cell, T-lymphocytic cell surface.
333 -	other secreted growth regulatory		antigen, etc.)
	factor, differentiation factor,	344	Binds a cancer cell or component or
	intercellular mediator specific		product thereof (e.g., cell
	for a hematopoietic cell (e.g.,		surface antigen, etc.)
	interleukin, interferon,	344.1	Binds an antigen characterized by
	erythropoietin, etc.)		CEA NCA CC glycoprotein
336	Binds a hormone or other secreted		melanoma go 150 antigen, etc.)
	differentiation factor.	345	Immunoglobulin or antibody binds a
	intercellular mediator, or		drug, hapten, hapten-carrier
	neurotransmitter (e.g., insulin,		complex, or specifically identified
	human chorionic gonadotropin,		chemical structure (e.g.,
	intragonadal regulatory protein,	246	theophylline, digoxin, etc.)
	Mullerian innibiting substance, inhibin, epidermal growth factor	34b	.rusea or nybria celi, per se
	nerve growth factor. dopamine.	347	.Two or more cell types, per se, in
	norepinephrine, etc.)	310	Insect cell per co
337	Binds a plasma protein, serum	740	insect cert, her se
	protein, or fibrin (e.g., clotting		
	factor fibrinolytic factor,		
· ·	complement factor, immunoglobulin,		
	aportpoprocern, ecc.)		
	# Title Change		@ Indent Change

* Newly Established Subclass

& Position Change

OCTOBER 2007

	ANIMAL CELL, PER SE (E.G., CELL LINES,	384	Culture medium contains a growth
	ETC.); COMPOSITION THEREOF; PROCESS		factor or growth regulator
	OF PROPAGATING, MAINTAINING OR	385	Medium contains a colony stimulating
	PRESERVING AN ANIMAL CELL OR		factor
	COMPOSITION THEREOF; PROCESS OF	386	Medium contains an interleukin
	ISOLATING OR SEPARATING AN ANIMAL	387	Medium contains a polypeptide hormone
	CELL OR COMPOSITION THEREOF; PROCESS	388	Culture medium contains an albumin
	OF PREPARING A COMPOSITION CONTAINING	389	Culture medium contains a transferrin
	AN ANIMAL CELL; CULTURE MEDIA	390	Culture medium contains an
	THEREFORE		incompletely defined plant or
349	Avian cell, per se		microbial extract excluding animal
350	.Canine cell, per se	201	Culture medium contains an animal
351	.Feline cell, per se	221	extract
352	.Rodent cell, per se	392	Serum
353	Rat (i.e., Rattus)	393	. Using airlift or laminar flow aeration
354	Mouse (i.e., Mus)		or foam culture
355	Blood or lymphatic origin or derivative	394	Wherein culture vessel is rotated or oscillated or culture is agitated.
356	<pre>L cell or derivative (e.g., Ltk(-),</pre>	395	.Solid support and method of culturing cells on said solid support
357	Fibroblast, fibroblast-like cell or	396	Support is a resin
	derivative (e.g., NIH 3T3, etc.)	397	
358	Chinese hamster ovary (i.e., CHO)	398	
359	Expressing recombinant tPA	- 399	Fabric, mat, gauze, or fibrous
360	Expressing recombinant hormone or growth factor	400	coating
361	Expressing recombinant receptor	400	Support is a membrane
362	Expressing recombinant antigen	401	Support is a goated or treated surfage
363	.Primate cell, per se	403	Support is a suspendable particle
364	Monkey kidney	404	Culture medium, ner se
365	COS (e.g., COS-7, etc.)	405	Contains a growth factor or growth
365.1	Expressing recombinant lymphokine, interferon, hormone, growth		regulator
	factor or morphogen	400	Centains a polypeptide normone
366	Human	407	Contains an albumin
367	HeLa cell or derivative	408	DINT GELL OF GELL LINE DER GE (E G
368	Nervous system origin or derivative	410	PLANT CELL OK CELL LINE, PER SE (E.G., TRANSCENTC MUTANT FOC).
369	Renal origin or derivative		COMPOSITION THEREOF; PROCESS OF
370	Hepatic origin or derivative		PROPAGATING, MAINTAINING, OR
371	Epithelial origin or derivative		PRESERVING PLANT CELL OR CELL LINE;
372	Blood, lymphatic, or bone marrow origin or derivative		PROCESS OF ISOLATING OR SEPARATING A PLANT CELL OR CELL LINE; PROCESS OF
372.1	Myeloma origin or derivative		REGENERATING PLANT CELLS INTO TISSUE,
372.2	B-cell or derivative		PLANT PART, OR PLANT, PER SE, WHERE
372.3	T-cell or derivative		NU GENUTIPIC CHANGE OCCURS; MEDIUM
373	.Method of co-culturing cells	111	Tomato cell or cell line per se
374	.Method of storing cells in a viable	412	Corn cell or cell line per se
	state	413	Herbicide resistant
375	.Method of regulating cell metabolism or physiology	414	.Tobacco cell or cell line, per se
376	Method of synchronizing cell division	415	.Soybean cell or cell line, per se
377	Method of altering the differentiation state of the cell	416 417	Sunflower cell or cell line, per se .Potato cell or cell line, per se
378	.Method of detaching cells, digesting tissue or establishing a primary culture	418	.Plant cell or cell line, per se, is pest or herbicide resistant or pest lethal
379	Using mechanical means (e.g., trituration, etc.)	419	.Plant cell or cell line, per se, contains exogenous or foreign
380	.Releasing bound or adhered cell using protease	420	nucleic acid .Culture, maintenance, or preservation
381	Digesting tissue with protease		techniques, per se
382	Method of culturing encapsulated cells	421	Involving protoplast
383	.Method of culturing cells in suspension	422	Involving conifer cell or tissue (e.g., pine, spruce, fir, cedar, etc.)

Title Change
* Newly Established Subclass

@ Indent Change & Position Change

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

OCTOBER 2007

	PLANT CELL OR CELL LINE, PER SE (E.G., TRANSGENIC, MUTANT, ETC.);	252.5	Bacillus (e.g., B. subtilis, B. thuringiensis, etc.)
	COMPOSITION THEREOF; PROCESS OF	252.6	Actinoplanes
	PROPAGATING, MAINTAINING, OR	252.7	Clostridium
	PRESERVING PLANT CELL OR CELL LINE; PROCESS OF ISOLATING OR SEPARATING A	252.8	Escherichia (e.g., E. coli, etc.) or salmonella
. ,	PLANT CELL OR CELL LINE; PROCESS OF REGENERATING PLANT CELLS INTO TISSUE.	252.9	Lactobacillus, pediococcus, or leuconostoc
	PLANT PART, OR PLANT, PER SE, WHERE	253.1	Mycobacterium
	NO GENOTYPIC CHANGE OCCURS; MEDIUM	253.2	Nocardia
	THEREFORE	253.3	Pseudomonas
	Culture, maintenance, or preservation	253.4	Streptococcus
	techniques, per se	253.5	Streptomyces
423	Involving tomato cell or tissue	253.6	Culture media, per se
424	Involving corn cell or tissue	254.1	.Fungi
425	Involving tobacco cell or tissue	254.11	Transformants
426	Involving soybean cell or tissue	254.2	Yeast; media therefor
427	Involving cotton cell or tissue	254.21	Saccharomyces
428	Involving sunflower cell or tissue	254.22	Candida
429	.Involving potato cell or tissue	254.23	Pichia
430		254.3	Aspergillus
100	into a plant or plant part	254.4	Neurospora
430.1	Involving callus or embryonic stage	254 5	Penicillium
431	.Medium, per se, for culture,	254 6	Trichoderma
	maintenance, regeneration, etc.	254.0	Fugarium
242	SPORE FORMING OR ISOLATING PROCESS	254.7	Mudor
243	MICRO-ORGANISM, PER SE (E.G., PROTOZOA,	2,14.0	Phigomag
	ETC.); COMPOSITIONS THEREOF; PROCES	254.5	Veast
	OF PROPAGATING, MAINTAINING OR	200-1	east
	PRESERVING MICRO-ORGANISMS OR	200.2	Culture media per co er technique
	COMPOSITIONS THEREOF; PROCESS OF	200.2L	Curcure media, per se, or cechnique
	PREPARING OR ISULATING A COMPOSITION	200.0	
	MEDIA THEREFOR	255.4 255.6	Canoida or torotopsis
244	Chemical stimulation of growth or	200.0	
211	activity by addition of chemical	255.6	
	compound which is not an essential	255.7	culture media, per se, or technique
	growth factor; stimulation of growth	256.1	Aspergillus
	by removal of a chemical compound	250.2	
245	Adaptation or attenuation of cells	256.3	Penicillium
246	.Foam culture	256.4	
247	.Utilizing media containing lower	256.5	Fusarium
	alkanol (i.e., having one to six	256.6	
	carbon atoms;	256.7	Trichoderma
248	.Utilizing media containing hydrocarbon	256.8	
249	. Aliphatic	257.1	Algae, media therefor
250	Having five or tess carbon atoms	257.2	Transformants
251	.Utilizing media containing waste	2,57.3	Chlorella
252	Sulphice liquor	257.4	Euglena
202	hydrolycates thereof	257.5	Scenedesmus
252 1	Parteria er artinomuratalog, media	257.6	Chlamydomonas
292.1	therefor	258.1	.Protozoa, media therefor
252 2	Rhizobium or agrobacterium	258.2	Plasmodium
252.2	Transformants (e.g. recombinant DNA	258.3	Leishmania
232.3	or vector or foreign or exogenous	258.4	Eimeria
	gene containing, fused bacteria,	259	Lysis of micro-organism.
	etc.)	260	.Preserving or maintaining
252.31	Bacillus (e.g., B. subtilis, B. thuringiensis, etc.)	261	micro-organism Separation of micro-organism from
252.32	Brevibacterium or corvnebacterium		culture media
252.33	Escherichia (e.g. E. coli. etc.)		
252.34	Pseudomonas		
252.35	Streptomyces		
252.4	Mixed culture		
	· · · · · · · · · · · · · · · · · · ·		

Title Change
* Newly Established Subclass

@ Indent Change
& Position Change

OCTOBER 2007

320.1	VECTOR, PER SE (E.G., PLASMID, HYBRID PLASMID, COSMID, VIRAL VECTOR,		testing using antibody or nucleic acid
	BACTERIOPHAGE VECTOR, ETC.)	287.3	. With sample or reagent mechanical
	BACTERIOPHAGE VECTOR, ETC.)		transport means
262	PROCESS OF UTILIZING AN ENZYME OR	287.4	Sterility testing means
	MICRO-ORGANISM TO DESTROY HAZARDOUS OR TOXIC WASTE, LIBERATE, SEPARATE, OR PURIFY A PREEXISTING COMPOUND OR COMPOSITION THEREFORE; CLEANING	287.5	. Means for measuring gas pressure or gas volume of gas evolved from or consumed in an enzymatic or microbial reaction
	OBJECTS OR TEXTILES	287.6	Including frangible means for
262.5	.Déstruction of hazardous or toxic waste		introducing a sample or reagent
263	.Textile treating	287.7	.Including bibulous or absorbent layer
264	.Cleaning using a micro-organism or	287.8	Including multiple, stacked layers
0.65	enzyme	287.9	Including a coated reagent or sample
265	treating using enzyme or micro-organism	288.1	Including a bottle, tube, flask, or jar
266	.Treating gas, emulsion, or foam	288.2	Including multiple internal
267	.Treating animal or plant material or	20012	compartments or baffles
268	Preating organ or animal secretion	200.5	trav
200	Treating blood fraction	288.4	Including multiple compartments
209	Removing puckeic acid from intact or	200.4	(e.g., wells, etc.)
210	disrupted cell	288.5	Including means for fluid passage
271	Glyceridic oil, fat, ester-type wax, or higher fatty acid recovered or		between compartments (e.g., between wells, etc.)
	purified	288.6	Including column separation means
272	Proteinaceous material recovered or purified	288.7	Including optical measuring or testing means
273	Collagen or gelatin	289.1	.Bioreactor
274	Carbohydrate material recovered or	290.1	Composting apparatus
	purified	290.2	Including agitation means
275	Pectin or starch	290.3	Compostor is rotatably mounted
276	Sugar (e.g., molasses treatment, etc.)	290.4	Including solid or liquid transport means into or out of a compostor
277	Cellulose (e.g., plant fibers, etc.)	291.1	Malting or mashing apparatus
278	Producing paper pulp	291.2	Movable floor to facilitate
279	Hemp or flax treating		maintenance (e.g., cleaning)
280	Resolution of optical isomers or purification of organic compounds or	291.3	Vertically spaced stages, levels, or floors
	composition containing same	291.4	Cascading
281	.Petroleum oil or shale oil treating	291.5	With agitator or mash turner
282	Desulfurizing	291.6	With vertical axis of rotation
283.1	APPARATUS	291.7	With horizontal axis of rotation
284.1	.Differentiated tissue (e.g., organ)	291.8	Rotating vessel
285.1	perfusion or preservation apparatus .Mutation or genetic engineering apparatus	292.1	Including means to transmit light into a bioreactor to facilitate photo- bioreaction (e.g., photosynthesis)
285.2		293.1	
	current or charge (e.g.,	293.2	Radial or spiral flow bioreactor
	electrofusion, electroporation,	294.1	Vessels or travs in series
	etc.)	295.1	
285.3	Including projectile means	295.2	Airlift bioreactor
286.1	.Including condition or time responsive	295 3	Including a semi-permeable membrane
0.0.5	control means		or filter
286.2	Including position control	296.1	Bubble bioreactor
286.3	Plater, streaker, or spreader	297.1	Including semipermeable membrane or
286.4	Including liquid dispenser means		filter
286.5	Including liquid flow, level, or	297.2	Including perfusion means
286.6	Including gas flow or pressure control	297.3	Including a spinning semipermeable membrane or filter
286.7	Including mixing or agitation control	297.4	Including hollow fiber or capillarv
287.1	Including measuring or testing		
287.2	. Measuring or testing for antibody or nucleic acid, or measuring or		

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

OCTOBER 2007

		APPARATUS	813	CONTINUOUS FERMENTATION
		.Bioreactor	814	ENZYME SEPARATION OR PURIFICATION
		Including semipermeable membrane or	815	.By sorption
		filter	816	.By solubility
2	297.5	In combination with a dish, plate, or	817	ENZYME OR MICROBE ELECTRODE
		tray	818	AERATION OR OXYGEN TRANSFER TECHNIQUE
2	298.1	Cylindrical reaction tank or vessel	819	FERMENTATION VESSELS IN SERIES
		horizontally disposed with respect	820	SUBCELLULAR PARTS OF MICRO-ORGANISMS
;		to its central axis	821	MICRO-ORGANISMS USED IN THE DESTRUCTION
4	298.2	with a rotatably mounted tank or		OF HAZARDOUS OR TOXIC WASTE
	000 1	Vesser Traluding colid ortended fluid contact		******
~	299.1			MICRO-ORGANISM CROSS-REFERENCE ART
,	000 7	Including a bottle tube jar or		COLLECTIONS
-	279.2	flask		******
-	300 1	Including off-gas trapping means	822	.Using bacteria or actinomycetales
	301 1	Including form breaking means	823	Acetobacter
-	302 1	Including meanetically coupled	824	Achromobacter .
	002.1	agitation means	825	Actinomadura
-	303.1		826	Actinomyces
	303 2	Specifically adapted for an anaerobic	827	Actinoplanes
	00012	microorganism or enzyme (e.g.,	828	Aerobacter
•		anaerobe jars)	829	Alcaligenes
1	303.3	Including an agitator	830	Arthrobacter
-	304.1	Bottle, tube, jar, or flask	831	Azotobacter
-	304.2	Including multiple internal	832	Bacillus
		compartments for baffles	833	Bacillus browie
-	304.3	Flat culture flask	027	Bagillus gerous
-	305.1	Dish, plate, or trav	034	Pacillus circulans
-	305.2		633	Decillus licherifermie
	305 3	Including cover seal	836	Bacillus lichenitormis
-	305 4	Traluding cover seal	837	Bacillus megaterium
	205.4	Thursdaying lugic of a midroorganism by	838	Bacillus polymyxa
•	900.I	means other than comminution	839	Bacillus subtilis
-	207 1	Migroorganigm progorgation storage or	. 840	Brevibacterium
		transport apparatus	841	Chainia
	308.1	Means for separation or recovery of a	842	Clostridium
		microorganism from culture media	843	Corynebacterium
	309.1	.Inoculator, streaker, or sampler	844	Corynebacterium diphtheriae
1	309.2	.Means for inoculation or sampling of a	845	Corynebacterium poinsettiae
		closed vessel	846	Corynebacterium pyogenes
1	309.3	Loop or wire streaker	847	Erwinia
	309.4	Replica plate	848	Escherichia
1	317.1	MISCELLANEOUS (E.G., SUBCELLULAR PARTS	849	Escherichia coli
		OF MICRO-ORGANISMS, ETC.)	850	Flavobacterium
		* * * * * * * * * * * * * * * * * * * *	851	Haemophilus
•		CROSS-REFERENCE ART COLLECTIONS	852	Klebsiella
		********	853	Lactobacillus
9	300	ELIMINATION OF REDUCTION OF	854	Lactobacillus acidophilus
`	500	CONTAMINATION BY UNDERSIRED FERMENTS	855	Lactobacillus brevis
		(E.G., ASEPTIC CULTIVATION)	856	Lactobacillus casei
8	301	ANEROBIC CULTIVATION	857	Lactobacillus plantarum
5	302	LOGARITHMIC GROWTH PHASE	858	Methylomonas
8	303	PHYSICAL RECOVERY METHODS (E.G.,	859	Micrococcus
	÷	CHROMATOGRAPHY, GRINDING)	860	Micrococcus flams
8	304	SINGLE CELL PROTEIN	0.00	Migrogoggug glutomigug
ş	305	TEST PAPERS	0601	Migrosoggus lupodoiltigus
1	306	FERTILITY TESTS	002	Murchastorium
,	307	GAS DETECTION APPARATUS	603	Mycobacterium
s	308	OPTICAL SENSING APPARATUS	804	mycopacterium avium
5	309	INCUBATORS OF BACKS OF HOLDERS FOR	865	Mycobacterium fortuitum
		CULTURE PLATES OR CONTAINERS	800	Mycobacterium smegmatis
\$	310	PACKAGED DEVICE OR KIT		
\$	811	INTERFERON		
5	312	FOAM CONTROL		

435-12

OCTOBER 2007

	MICRO-ORGANISM CROSS-REFERENCE ART	926	Cephalosporium acremonium
	COLLECTIONS	927	Cephalosporium caerulens
	.Using bacteria or actinomycetales	928	Cephalosporium crotocinigenium
867	Micromonospora	929	Fusarium
868	Micromonospora chalcea	930	
869	Micromonospora purpurea	931	Mucor
870	Mvcoplasma	932	Paecilomyces
871	Neisseria	933	. Penicillium
872	Nocardia	934	Penicillium brevi
873	Proteus	935	Penicillium chrysogenum
874	Pseudomonas	936	Penicillium notatium
875	Pseudomonas aeruginosa	937	Penicillium natulum
876	Pseudomonas fluorescens	938	Pichia
877	Pseudomonas putida	939	Bhizopus
878	Rhizobium	940	Saccharomyces
879	Salmonella	941	Saccharomyces carlsbergensis
880	Sorratia	942	Saccharomyces corpyisiae
881	Sorratia marcescens	943	Saccharomyces lactis
001	Stanhulogoggue	040	Torulongie
002	Stanhylococcus aureus	944	Trichoderma
003	Staphylococcus aureus	940	Using algae
004	Chrophododaud	040	Using protono
885	Streptococcus	. 947	Using procozoa
886	streptomyces	946	.USING VITUSES OF CELL TIMES
887	streptomyces albus		
888	Streptomyces antibioticus		CROSS-REFERENCE ART COLLECTIONS
889	Streptomyces aureoraciens		RELATED TO SOBCLASSES
890	Streptomyces aureus		7.1 THROUGH 7.95
891	Streptomyces bikiniensia	0.00	
892	Streptomyces candidus	960	IMMUNOHISTOCHEMICAL ASSAY
893	Streptomyces chartreusis	961	OR EXPOSITIC THE ANTICEN OF FORMING,
894	Streptomyces diastatochromogenes		THE HAPTEN-IMMUNOGENIC CARRIER
895	Streptomyces filipinensis		COMPLEX OR THE ANTIGEN, PER SE
896	Streptomyces fradiae	962	PREVENTION OR REMOVAL OF INTERFERING
897	Streptomyces griseus		MATERIALS OR REACTANTS OR OTHER
898	Streptomyces hygroscopicus		TREATMENT TO ENHANCE RESULTS (E.G.,
899	Streptomyces lavendulae		DETERMINING OR PREVENTING NONSPECIFIC
900	Streptomyces lincolnensis		BINDING, ETC.)
901	Streptomyces noursei	963	METHODS OF STOPPING AN ENZYME REACTION
902	Streptomyces olivaceus	064	OR STABLIZING THE TEST MATERIALS
903	Streptomyces platensis	964	DEODICTION (P.C. DEDICINC DARE OF
904	Streptomyces rimosus		NONPRODUCTIVE LINKAGE. ETC.)
905	Streptomyces sparogenes	965	INVOLVING IDIOTYPE OR ANTI-IDIOTYPE
906	Streptomyces venezuelae	505	ANTIBODY
907	Streptosporangium	966	INVOLVING AN ENZYME SYSTEM WITH HIGH
908	Streptovirticillium		TURNOVER RATE OR COMPLEMENT MAGNIFIED
909	Vibrio		ASSAY (E.G., MULTI-ENZYME SYSTEMS,
910	Xanthomonas		ETC.)
911	.Using fungi	967	STANDARDS, CONTROLS, MATERIALS (E.G.,
912	Absidia		VALIDATION STUDIES, BUFFER SYSTEMS,
913	Aspergillus	0.60	ETC.)
914	Aspergillus awamori	968	HIGH ENERGY SUBSTRATES (E.G.,
915	Aspergillus flavus		PROVESCENT, CHEMILOMINESCENT, RADIOACTIVE FTC)
916	Aspergillus fumigatus	969	MILTIDLE LAVERING OF DEACTANEC
917	Aspergillus niger	909	MUSITIBE LATERING OF REACTANTS
918	Aspergillus oryzae	57V 071	DADAT OL CONDERVISIONO ACTIVITY OF THE
919	Aspergillus ustus	3/1	ANTIGEN-ANTIRODY REACTION
920	Aspergillus wenti	972	MODIFIED ANTIBODY (E.G., HYBRID.
921	Candida		BIFUNCTIONAL, ETC.)
922	Candida albicans		
923	Candida lipolytica		
924	Candida tropicalis		
925	Cephalosporium		

CLASS 435 CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

 $\int_{\mathcal{T}} | f_{i} | = 0$

OCTOBER 2007

973	SIMULTANEOUS DETERMINATION OF MORE THAN ONE ANALYTE	FOR 122	Culture medium, per se, or regeneration medium, per se
974	AIDS RELATED TEST	HOR 103	(435/240.54)
975	KIT ********	FOR 123	(435/172.1)
	FOREIGN ART COLLECTIONS	FOR 124	.Fused or hybrid cell formation (435/172.2)
FOR 000		FOR 125	.Recombination (435/172.3)
Any for	eign patents or non-patent liter-	FOR 126	OBTAINING THE DESIRED GENE; DNA, RNA PER SE AND THE MODIFICATION THEREOF OTHER THAN VECTOR MODIFICATION (935/1)
classif	ied have been transferred direct-	FOR 127	.DNA-RNA hybrid (935/2)
ly to	FOR Collections listed below.	FOR 128	.RNA (935/3)
These C	Collections contain ONLY foreign	FOR 129	mRNA (935/4)
patents parenthe	or non-patent literature. The etical references in the Collec-	FOR 130	2-100 nucleotides in length, e.g.,
tion ti classes	tles refer to the abolished sub- from which these Collections	FOR 131	.DNA, e.g., regulatory sequences, etc.
were de	rived.	FOP 132	Homopolymeric $e = a - poly d(\mathbf{A})$
FOR 100	ANIMAL OR PLANT CELL (E.G., CELL LINES, ETC.): COMPOSITIONS THEREOF; PROCESS	FOR 152	sequence, etc. (935/7)
	OF PROPAGATING, MAINTAINING OR	FOR 133	12-75 nucleotides in length, e.g., primers, etc. (935/8)
	COMPOSITION THEREOF: PROCESS OF	FOR 134	Structural gene sequence (935/9)
	ISOLATING OR SEPARATING AN ANIMAL OR PLANT CELL OR COMPOSITION THEREOF;	FOR 135	Modified structural gene, e.g., nonnaturally occurring sequence, etc. (935/10)
	CONTRATING ANTIMAL OF DLANE CELL.	POP 136	Bolypoptido (935/11)
	CULTURE MEDIA THEREFORE (435/240.1)	FOR 137	Antigenic material (935/12)
FOR 101	Animal cells, per se, culture	FOR 138	Hormone, e.g., human growth factor,
ROR 102	Techniques of establishing a primary	FOD 120	$r_{113}u_{111}, etc. (335)(13)$
1010 102	culture (435/240.21)	FOR 139	(935/15)
FOR 103	Culture of encapsulated cells (435/240.22)	FOR 140	.Methods of producing DNA or RNA other than by expression vectors, e.g.,
FOR 104	Culture of cells on solid support (e.g., anchorage dependent cells)		culture of cells high in DNA, etc. (935/16)
	(435/240.23)	FOR 142	Cell free production (935/17)
FOR 105	Support is suspendable particle	FOR 143	cDNA synthesis (935/18)
FOR 106	(435.240.24) Culture of cells on membrane	FOR 144	.Isolation or purification of DNA or RNA (935/19)
	(435/240.241)	FOR 145	RNA (935/20)
FOR 107	Hollow fiber membrane (435/240.242)	FOR 146	mRNA (935/21)
FOR 108	Solid support treated or coated to enhance attachment or growth	FOR 147	VECTORS AND METHODS OF MODIFYING VECTORS (935/22)
TOT 100	(435/240.243)	FOR 148	.Inserting gene into vector to form
FOR 109	Eucod an hybrid colld (435/240.25)		recombinant vector, i.e., cleavage
FOR 110 POD 111	Fused of hyprid certs (455/240.20)		and ligation (935/23)
FUR 111	(435/240.27)	FOR 149	Vector utilized, e.g., episomes, etc. (935/24)
FOR 112	Culture medium, per se (435/240.3)	FOR 150	Plant virus (935/25)
FOR 113	Defined medium (435/240.31)	FOR 151	Cosmid (935/26)
FOR 114	.Plant cells, per se, culture techniques	FOR 152	Plasmid (935/27)
POP 115	Culture techniques (o q moristom	FOR 153	Yeast (935/28)
FOR IID	culture, etc.) (435/240.45)	FOR 154	Prokaryotic (935/29)
FOR 116	Culture in suspension (435/240.46)	FOR 155	Plant (935/30)
FOR 117	Protoplasts (435/240.47)	FOR 156	Bacteriophage (935/31)
FOR 118	Callus culture (435/240.48)	FOR 157	Animal virus, e.g., SV40, etc.
FOR 119	Regeneration (includes nonflowering	FOR 158	(935/32) METHODS OF ENHANCING OR DIMINISHING
FOR 120	Agronomic crops (e.g., tobacco,		EXPRESSION (935/33)
FOR 121	grains, etc.) (435/240.5) Fruit and vegetable crops (e.g.,		
	tomato, etc.) (435/240.51)		

435-14

CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY CLASS 435

OCTOBER 2007

	METHODS OF ENHANCING OR DIMINISHING	FOR 202	.Methods of analysis of nucleic acids
	EXPRESSION (935/33)		(935/77)
FOR 159	.Eukaryotic cell (935/34)	FOR 203	Including hybridization (935/78)
FOR 160	Plant cell (935/35)	FOR 204	Methods of selection of recombinant
FOR 161	Transcription (935/36)		gene containing vector; materials
FOR 162	Yeast cell (935/37)		etc. (935/79)
FOR 163	.Prokaryotic cell (935/38)	FOR 205	Gene library manipulation (935/80)
FOR 164	Transcription (935/39)	FOR 205	Aptigon_antibody (935/91)
FOR 165	Operon selection (935/40)	FOR 200	Engrane activity (935/01)
FOR 166	Promoter, e.g., portable promoters,	FOR 207	Enzyme activity (555/62)
•	etc. (935/41)	FOR 200	Colortion modium (035(04)
FOR 167	Gene dosage modification, e.g., copy	FOR 209	CENERT ENGINEERING ADDIDADNUG (025/05)
	number amplification, etc. (935/42)	FOR 210	GENETIC ENGINEERING APPARATUS (955/85)
FOR 168	Inducible, e.g., temperature	FOR ZIT	etc (935/86)
	inducible, etc. (935/43)	FOR 212	Automated (935/87)
FOR 169	Translation (935/44)	FOR 212	Synthesis e a peptide or gene
FOR 170	Ribosome binding site (935/45)	FOR 215	synthesizers, etc. (935/88)
FOR 171	Initiation (935/46)	FOR 214	HYBRID OR FUSED CELL TECHNOLOGY, METHODS
FOR 172	.Fused protein or peptide (435/47)	1011 221	OF IMMORTALIZING CELLS, E.G.,
FOR 173	Signal peptide, e.g., secretion, etc.		HYBRIDOMA, ETC. (935/89)
454	(935/48)	FOR 215	.Method of selection of the desired cell
FOR 174	.Post translational modification		(935/90)
DOD 195	(933/49)	FOR 216	Of plant cells, e.g., protoplasts,
FUR 175			etc. (935/91)
FOR 176	Peptide bond Cleavage (935/51)	FOR 217	.Using positive selection technique
FOR 177	METHODS OF INTRODUCING GENE INTO HOST		(935/92)
	TRANSFERTION, ETC $(935/52)$	FOR 218	.Method of production of hybrid or fused
FOR 178	Microinjection (935/53)		cells, e.g., chromosome or genome
FOR 179	Microencapsulation e.g. linosome	610	transfer techniques, etc. (935/93)
FOR IT	vesicle, etc. (935/54)	FOR 219	. Of plant cells (935/94)
FOR 180	.Using vector, e.g., plasmid, etc.	FOR 220	.Fused or hybrid cell, per se (935/95)
	(935/55)	FOR 221	interspecies fusion (935/96)
FOR 181	Plasmid (935/56)	FOR 222	Fungi, e.g., yeasts, etc. (935/97)
FOR 182	Virus (935/57)	FOR 223	Plant cells (935/98)
FOR 183	Phage, e.g., phage lambda, etc.	FOR 224	Human Cell 935/99)
	(935/58)	FOR 225	B lymphocyte (935/100)
FOR 184	METHOD OF USE OF GENETICALLY ENGINEERED	FOR 226	T lymphocyte (935/101)
	CELLS, E.G., OIL SPILL CLEANUP, ETC.	FOR 227	.Animal cell (935/102)
а.	(935/59)	FOR 228	Murine cell, e.g., mouse cell, etc.
FOR 185	.To produce an identified chemical	EOD 210	(3337203)
	product, e.g., amino acid, etc.	FOR 229	B lymphocyce (935/104)
FOR 186	(555/00) Nield entimization (025/51)	FOR 230	Nothed of use of the fueld on behald
FOR 100	Control of genetic diseases or defects	FOR 251	cell or the product thereof
FOR 187	by use of added gene e g gene		(935/106)
	therapy (935/62)	FOR 232	
FOR 188	.Use in animal husbandry (935/63)	FOR 233	In vitro, e.g., cell cultivation
FOR 1.89	Use in agriculture (935/64)		techniques, affinity
FOR 190	Vaccine production (935/65)		chromatography, etc. (935/108)
FOR 191	CELLS CONTAINING A VECTOR AND/OR	FOR 234	Production of non-antibody product
1010 101	EXOGENOUS GENE, PER SE; PROPAGATION		(935/109)
	THEREOF; OTHER MEMBRANE ENCAPSULATED	FOR 235	For use as testing material (935/110)
	DNA, E.G., PROTOPLASTS, ETC. (935/66)	FOR 236	MISCELLANEOUS (935/111)
FOR 192	.Plant cells (935/67)		
FOR 193	.Fungal cells (935/68)		
FOR 194	Yeast cells (935/69)		
FOR 195	Animal cell (935/70)		
FOR 196	Human cell (935/71)		
FOR 197	.Bacteria (935/72)		
FOR 198	Escherichia (935/73)		
FOR 199	Bacillus (935/74)		
FOR: 2	Streptomyces (935/75)		
FOR 201	ASSAY RELATED TO GENETIC ENGINEERING		
	(935/76)		,
	# Title Change		a Indont Charge
	" TTCTC CHOUNC		e moene change

* Newly Established Subclass

OCTOBER 2007

* 1	DIRECTED MOLECULAR EVOLUTION OF	* 28	Involving an encoding step
	MACROMOLECULES (E.G., RNA, DNA, PROTEINS, ETC.)	* 29	Using a particular method of attachment to the liquid support
* 2	METHOD SPECIALLY ADAPTED FOR IDENTIFYING A LIBRARY MEMBER	* 30	.Solid-phase synthesis (i.e., wherein one or more library building blocks
* 3	Identifying a library member by its fixed physical location on a support or substrate		are bound to a solid support during library creation) or particular method of cleavage from the solid
* 4	.Identifying a library member by means	* 31	Support used
	or detectable entity associated with the library member (e.g., decoding	* 32	Using a particular method of attachment to the solid support
* 5	.Using an iterative deconvolution technique	* 33	APPARATUS SPECIALLY ADAPTED FOR USE IN COMBINATORIAL CHEMISTRY OR WITH A LIBRARY
* 6	Direct analysis of a library member, per se, by a physical method (e.g., spectroscopy, etc.)	* 34	.Integrated apparatus specially adapted for creating a library, screening a library, and identifying a library member
" / * Q	In silico screening	* 35	Integrated apparatus specially adapted
* 9	.By measuring the ability to	- 22	for both screening a library and identifying a library member
	(e.g., antibody-antigen binding, receptor-ligand binding, etc.)	* 36	.Integrated apparatus specially adapted for both creating a library and
* 10	.By measuring the effect on a living		identifying a library member
	organism, tissue, or cell	* 37	.Integrated apparatus specially adapted
* 11	.By measuring catalytic activity		library
* 12	.By measuring a physical property (e.g., mass. etc.)	* 38	.For identifying a library member
* 13	LIBRARY, PER SE (E.G., ARRAY, MIXTURE,	* 39	.For screening a library
	IN SILICO, ETC.)	* 40	.For creating a library
* 14	.Library contained in or displayed by a micro-organism (e.g., bacteria,	* 41	TAG OR LABEL SPECIALLY ADAPTED FOR COMBINATORIAL CHEMISTRY OR A LIBRARY
	animal cell, etc.) or library		(E.G., FLUORESCENT TAG, BAR CODE,
	vector (e.g., plasmid, etc.) or	* 42	LINK OR SPACER SPECIALLY ADAPTED FOR
	library containing only micro-organisms or vectors		COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH
* 15	library containing only micro-organisms or vectors .Library containing only organic		COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.)
* 15	library containing only micro-organisms or vectors .Library containing only organic compounds	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16	<pre>library containing only micro-organisms or vectors .Library containing only organic compoundsNucleotides or polynucleotides, or derivatives thereof</pre>	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17	 library containing only micro-organisms or vectors Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18	 library containing only micro-organisms or vectors Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19	 library containing only micro-organisms or vectors Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof Saccharides or polysaccharides, or derivatives thereof 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20	<pre>library containing only micro-organisms or vectors .Library containing only organic compounds Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) Peptides or polypeptides, or derivatives thereof Saccharides or polysaccharides, or derivatives thereof Macromolecular compounds (e.g., synthetic resin, rubber, etc.)</pre>	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21	<pre>library containing only micro-organisms or vectors .Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds</pre>	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22	<pre>library containing only micro-organisms or vectors .Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof Saccharides or polysaccharides, or derivatives thereof Macromolecular compounds (e.g., synthetic resin, rubber, etc.) Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials</pre>	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23	 library containing only micro-organisms or vectors .Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23 * 24	<pre>library containing only micro-organisms or vectors .Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) .In silico or mathematical conception of a library</pre>	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23 * 24 * 25	 library containing only micro-organisms or vectors .Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) .In silico or mathematical conception of a library .Using a dynamic combinatorial chemistry technique 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23 * 24 * 25 * 26	 library containing only micro-organisms or vectors Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof .RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) .In silico or mathematical conception of a library .Using a dynamic combinatorial chemistry technique .Biochemical method (e.g., using an enzyme or whole viable micro-organism, etc.) 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23 * 24 * 25 * 26 * 27	 library containing only micro-organisms or vectors Library containing only organic compounds .Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) .In silico or mathematical conception of a library .Using a dynamic combinatorial chemistry technique .Biochemical method (e.g., using an enzyme or whole viable micro-organism, etc.) .Liquid-phase synthesis (i.e., wherein all library creation) or particular 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS
* 15 * 16 * 17 * 18 * 19 * 20 * 21 * 22 * 23 * 24 * 25 * 26 * 27	 library containing only micro-organisms or vectors Library containing only organic compounds Nucleotides or polynucleotides, or derivatives thereof RNA or DNA which encodes proteins (e.g., gene library, etc.) .Peptides or polypeptides, or derivatives thereof .Saccharides or polysaccharides, or derivatives thereof .Macromolecular compounds (e.g., synthetic resin, rubber, etc.) .Metal-containing organic compounds .Library containing only inorganic compounds or inorganic materials METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.) .In silico or mathematical conception of a library .Using a dynamic combinatorial chemistry technique .Biochemical method (e.g., using an enzyme or whole viable micro-organism, etc.) .Liquid-phase synthesis (i.e., wherein all library building blocks are in liquid phase or in solution during library creation) or particular method of cleavage from the liquid support used 	* 43	COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.) MISCELLANEOUS

PROJECT X-6295

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

	<u>USPC</u>	IPC	
<u>Class</u>	Subclass	Subclass	Notation
506	1	C40B	10/00
	2		20/00
	3		20/02
	4		20/04
	5		20/06
	6		20/08
	7		30/00
	8		30/02
	9		30/04
	10		30/06
	11		30/08
	12		30/10
	13		40/00
	14		40/02
	15		40/04
	16		40/06
	17		40/08
	18		40/10
	19		40/12
	20		40/14
	21		40/16
	22		40/18
	23		50/00
	24		50/02
	25		50/04
	26		50/06
	27		50/08
	28		50/10
	29		50/12
	30		50/14
	31		50/16
	32		50/18
	33		60/00
	34		60/02
	35		60/04
	36		60/06
	37		60/08
	38		60/10
	39		60/12
	40		60/14
	41		70/00
	42		80/00
	43		99/00

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 204 - CHEMISTRY: ELECTRICAL AND WAVE ENERGY

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a process of creating a library (e.g., chemical, biological, etc.), process of testing or analyzing a library, or an apparatus specially adapted for such processes.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 260 - CHEMISTRY OF CARBON COMPOUNDS

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 420 - ALLOYS OR METALLIC COMPOSITIONS

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a library (e.g., chemical, biological, etc.) or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 422 – CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, subclasses 33 through 40 for apparatus specially adapted for use in combinatorial chemistry or with a library such as in identifying, screening, or creating a library.
- Subclass 50: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, subclasses 33 through 40 for apparatus specially adapted for use in combinatorial chemistry or with a library such as in identifying, screening, or creating a library.
- Subclass 129: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, subclasses 33 through 40 for apparatus specially adapted for use in combinatorial chemistry or with a library such as in identifying, screening, or creating a library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 423 – CHEMISTRY OF INORGANIC COMPOUNDS

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 424 – DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS

Subclass 9.1: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, subclass 10 for a method of screening a library by measuring the effect on a living organism, tissue, or cell.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 435 – CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library, a process of creating said library, a process of testing involving said library, or an apparatus specially adapted for creating or testing involving said library.
- Subclass 4: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a process of testing involving a chemical or biological library or an apparatus specially adapted for testing involving said library.
- Subclass 6: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a process of testing involving a chemical or biological library or an apparatus specially adapted for testing involving said library.
- Subclass 7.1: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a process of testing involving a chemical or biological library or an apparatus specially adapted for testing involving said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

Subclass 283.1: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for apparatus specially adapted for use in combinatorial chemistry technology.

Subclass 287.1: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for apparatus specially adapted for use in combinatorial chemistry technology to screen or identify a library member.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 436 – CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for testing involving a chemical or biological library.
- Subclass 37: After the (1) Note

Insert:

SEE OR SEARCH CLASS:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for testing a catalyst library.

Subclass 518: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for testing involving a chemical or biological library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 502 – CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING

Class Definition: Under SECTION IV – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a catalyst library or a method of making said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 506 – COMBINATORIAL CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS

SECTION I - CLASS DEFINITION

GENERAL STATEMENT OF THE CLASS SUBJECT MATTER

This is the specific class for combinatorial chemistry technology, which includes the following subject matter:

A. Methods specially adapted for identifying the exact nature (e.g., chemical structure, etc.) of a particular library member.

B. Methods of screening libraries or subsets thereof for a desired activity or property (e.g., binding ability, etc.).

C. Chemical or biological libraries and modifications thereof (i.e., chemically, biologically, or physically modified).

D. In silico or virtual libraries and their conception.

E. Methods of making libraries (e.g., combinatorial synthesis, etc.).

F. Apparatus specially adapted for use in combinatorial chemistry or library technology to identify library members, to screen libraries, or to synthesize libraries; and integrated apparatus specially adapted for performing any combination of these three tasks.

G. Tags, labels, linkers, or spacers specially adapted for use in combinatorial chemistry or library technology.

H. Other processes or products specially adapted for combinatorial chemistry or libraries.

SECTION II - SUBCLASS REFERENCES TO THE CURRENT CLASS

SEE OR SEARCH THIS CLASS, SUBCLASS:

1, for a combinatorial chemistry process involving the process of directed molecular evolution of macromolecules such as RNA, DNA, and proteins.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- 2, through 6, for methods that are specially adapted for identifying the nature of a specific library member.
- 7, through 12, for methods of screening a library for members that have a particular property or activity of interest.
- 13, through 22, for libraries, per se, based on their chemical or biological nature.
- 23, through 32, for methods of creating or synthesizing libraries including in silico, biochemical, and chemical methods.
- 33, through 40, for apparatus specially adapted for use in identifying, screening, or creating libraries.
- 41, for a tag or label that is specially adapted for used in a combinatorial chemistry process.
- 42, for a linker or spacer that is specially adapted for use in a combinatorial chemistry process.
- 43, for combinatorial chemistry technology not provided for elsewhere.

SECTION III - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

- 73, Measuring and Testing, for processes and apparatus for determining a physical property of what is being tested.
- 204, Chemistry: Electrical and Wave Energy, for a process of preparing compounds or elements involving chemical reactions brought about by electric or wave energy or an electrostatic field or electrical discharge and apparatus therefore.
- 260, Chemistry of Carbon Compounds, subclass 665 for organic compounds containing a metal other than a heavy metal or aluminum bonded to carbon.
- 420, Alloys or Metallic Compositions, for alloys containing metal or metallic compositions which contain a continuous phase of metal and methods of making same not provided for elsewhere and elemental metal, per se.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- 422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50 through 104 for apparatus for performing an analysis which involves a chemical or physical reaction not elsewhere provided for and subclasses 129-242 for carrying out chemical reactions.
- 423, Chemistry of Inorganic Compounds, for inorganic compounds and nonmetallic elements and processes of producing by a chemical reaction.
- 424, and 514, Drug, Bio-Affecting and Body Treating Compositions, for compositions used for testing of living organisms; preventing, alleviating, treating, or curing abnormal and pathological conditions of the living body; and maintaining, increasing, decreasing, limiting, or destroying a physiologic body function, etc.
- 435, Chemistry: Molecular Biology and Microbiology, for micro-organisms, vectors, and enzymes, per se; methods of producing them; testing processes involving micro-organisms and enzymes; and apparatus therefor not specially adapted for combinatorial chemistry technology.
- 436, Chemistry: Analytical and Immunological Testing, subclasses 500 through 542 for immunological tests and related subject matter, and for processes of analysis of chemical properties of a sample, physiological effect of a sample, or chemical determination of a physical property of a sample not specially adapted for combinatorial chemistry technology.
- 502, Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making, subclasses 100 through 355 for a catalyst or precursor therefor and subclasses 400-438 for a solid sorbent.
- 504, Plant Protecting and Regulating Compositions, for compositions for treating living terrestrial and aquatic plants or their habitats for the purpose of stimulating or inhibiting growth or any regulating action on plant growth through chemical modification of plant metabolism.
- 520, Synthetic Resins or Natural Rubbers, subclass 1 for the residual home for compositions containing a solid synthetic resin or natural rubber, preparation, or treatment thereof.
- 521, Synthetic Resins or Natural Rubbers, for ion-exchange polymers, processes of reclaiming a solid synthetic resin, and for cellular synthetic resins.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- 522, Synthetic Resins or Natural Rubbers, for processes of preparing or treating a solid polymer utilizing wave energy, for compositions to be polymerized by wave energy wherein said composition contains a rate-affecting material, or for compositions to be modified by wave energy wherein said composition contains a rate-affecting material.
- 523, and 524, Synthetic Resins or Natural Rubbers, for solid synthetic resins or specified intermediate condensation products admixed with a nonreactant material.
- 525, Synthetic Resins or Natural Rubbers, for certain combinations of polyesters and certain reactable materials, for blends of solid synthetic resins, and for chemically modified solid synthetic resins.
- 526, Synthetic Resins or Natural Rubbers, for certain manipulative processes which are generic to both ethylenic polymers and to condensation polymers, and also provides for polymers derived from ethylenic monomers only.
- 527, Synthetic Resins or Natural Rubbers, for solid synthetic resins derived from at least one saturated material and certain special reactants (e.g., carbohydrates, proteins, natural resins, lignin, tannin, bituminous material, etc.).
- 528, Synthetic Resins or Natural Rubbers, for solid synthetic resins derived from plant material of unknown constitution or from at least one nonethylenic reactant, and also for processes of treating a polymer either derived from ethylenic or nonethylenic reactants wherein chemical bonds in the polymer are left unaffected.
- 530, Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof, subclasses 200 through 233 for natural resins or derivatives, subclasses 300-427 for peptides or proteins, and subclasses 500-507 for lignins or derivatives.
- 534, Organic Compounds, for noble gases, radioactive or rare earth metal compounds, and azo and diazo compounds.
- 536, Organic Compounds, for carbohydrates.
- 540, Organic Compounds, for heterocyclic carbon compounds.
- 544, Organic Compounds, for six-membered nitrogen hetero rings with two or more hetero atoms.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- 546, Organic Compounds, for six-membered hetero rings with one ring nitrogen.
- 548, Organic Compounds, for three-, four-, or five-membered nitrogen hetero rings.
- 549, Organic Compounds, for oxygen or sulfur hetero rings.
- 552, Organic Compounds, for azides, triphenylmethanes, quinones, hydroquinones, or steroids.
- 554, Organic Compounds, for fats or fatty derivatives.
- 556, Organic Compounds, for heavy metal, aluminum, or silicon compounds.
- 558, and 560, Organic Compounds, for different esters.
- 562, Organic Compounds, for acids, acid halides, acid anhydrides, or selenium and tellurium compounds.
- 564, Organic Compounds, for amino nitrogen compounds.
- 568, Organic Compounds, for boron, phosphorus, sulfur, or oxygen compounds.
- 570, Organic Compounds, for halogen compounds.
- 585, Organic Compounds, for hydrocarbons and certain compositions containing hydrocarbons.
- 702, Data Processing: Measuring, Calibrating, or Testing, subclasses 19 through 32 for apparatus and corresponding methods wherein the data processing system or calculating computer is designed for or utilized in a biological, biochemical, or chemical environment relating to a specific or generic measurement system, a calibration or correction system, or a testing system.
- 703, Data Processing: Structural Design, Modeling, Simulation, and Emulation, subclasses 11 and 12 for simulating a nonelectrical biological, biochemical, or chemical device or system.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

977, Nanotechnology, for cross-reference art collections relating to nanostructure; chemical compositions of nanostructure; devices that include at least one nanostructure; mathematical algorithms specifically adapted for modeling configurations or properties of nanostructure; methods or apparatus for making, detecting, analyzing, or treating nanostructure; and specified particular uses of nanostructure.

SECTION IV - GLOSSARY

Terms used throughout the schedule and definitions are to have the meaning ascribed below. Generally accepted or commonly used "art" terms retain their meaning found in their everyday usage and are not found in this glossary. Certain specialized terms are employed in these subclasses and these terms have been given definitions altered to meet the needs of this class. Some or all of the terms may be broader or more restricted, as well as different in meaning compared to normal usage.

ARRAY

Set of compounds maintained in a specified spatial distribution (e.g., in the wells of a 96well plate, in pins held in a rack, or at the tip of optical fibers arranged in a bunch, etc.).

BIOCHEMICAL METHOD

Process involving the use of micro-organisms, enzymes, vectors, or antibodies.

CHEMICAL EVOLUTION PROCESS

Process using in vitro selection systems that evolve to enrich mixtures of chemical compounds in those components having selected properties. The terminology "directed molecular evolution" is commonly employed when the process is applied to mixtures of macromolecules (e.g., RNA aptamers, etc.). Selected compounds are then amplified ("copied") using biochemical methods (e.g., enzymatic reverse transcription of RNA aptamers to DNA, PCR amplification, and finally retranscription to RNA, etc.). This concept has been adapted to organic chemistry and opened a new branch of combinatorial chemistry named "dynamic combinatorial chemistry" wherein the enrichment in the (usually low-molecular weight) compounds having a selected property results from the equilibration process that carries out a preferential destruction and recycling of unselected compounds.

CODING OR ECODING

Strategy whereby a surrogate analyte is associated with each member of a library in order to record its structure or the reaction sequence used for its preparation. This is usually achieved by the use of tags or labels attached to particles or solid supports on which the library members are assembled.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

COMBINATORIAL LIBRARY

A set of compounds (a library) prepared by combinatorial synthesis. This set may consist of a collection of pools or sublibraries.

COMBINATORIAL SYNTHESIS

Combinatorial synthesis is the preparation of sets of diverse entities by the combination of sets of chemical building blocks (e.g., reagents, etc.).

CONTAINED IN

A library "contained in" a micro-organism, a cell, or a vector is a library in which the members are present in the respective biological entity (e.g., in a plasmid, etc.).

DECODING

Method enabling the determination of the structure of a library member or the reaction sequence leading to its preparation, which method involves "reading" (e.g., determining the structure of, etc.) a surrogate analyte (e.g., code, tag, label, etc.) associated with said library member.

DECONVOLUTION

Process of fractionating (normally by resynthesis or by elaborating a partial library) a pool with some level of the desired activity to give a set of smaller pools. See also iterative deconvolution.

DIRECTED MOLECULAR EVOLUTION

Directed molecular evolution is a process for enriching a library in members having a property or activity of interest. Directed molecular evolution involves cycles of taking a library, subjecting it to a screen to select for the desired property or activity, and amplifying the "hits" to provide the starting library for the subsequent cycle. "Mutations" may be introduced at the amplification stage in order to increase the diversity of the library. This subject matter involves aspects of creating and screening libraries.

DISPLAYED BY

A library "displayed by" a micro-organism is a library present at the surface of such a micro-organism (e.g., of a bacteria, etc.).

DYNAMIC LIBRARY

Collection of compounds, in solution, in dynamic equilibrium (i.e., constantly changing). If the composition of the library is altered by the presence of a target which selectively binds certain library members, then shifting of the equilibrium will lead to an increase in

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

the amount of those components which bind to the target with relatively high affinity. A dynamic library contains all the potentially possible combinations of the components undergoing dynamic random connection, whether these combinations are or are not actually present in the conditions used. It is a virtual library. A real entity is generated in the presence of the target.

FLUOROUS SYNTHESIS

Approach for solution-phase synthesis which takes advantage of the ability of highly fluorinated groups to partition out of aqueous and most organic solutions into a third phase comprising a fluorinated solvent. The fluorinated side chain can act as a soluble support for synthesis.

IDENTIFYING

Determining the exact nature (e.g., chemical structure or sequence listing, etc.) of a particular library member or of a particular subset of library members.

IN SILICO LIBRARY

A library which has no physical existence, being constructed solely in electronic form or on paper. An in silico library is one type of virtual library. The building blocks required for such a library may not exist, and the chemical steps for creating such a library may not have been tested. These libraries are used in the design and evaluation of possible libraries.

INTEGRATED APPARATUS

Apparatus specifically designed for performing at least two different operations (e.g., synthesis and screening, etc.).

ITERATIVE DECONVOLUTION

Method for the identification of active library members which involves repeating the deconvolution strategy a certain number of times. Usually the initial library is divided into nonoverlapping subsets. The subsets are tested or screened separately, and the one with the greatest activity is identified. This subset is re-synthesized as a collection of simpler subsets which are tested for activity. The process is repeated until a unique library-member with a high level of activity is identified.

LIBRARY

A library is a created collection of a plurality of compounds, micro-organisms, or other substances. The collection is useful as a test vehicle for determining which of its members or its subsets of members possess activities or properties of interest. A library might, for example, exist as (a) a solution, (b) a physical admixture, (c) an ordered or unordered array, or (d) a plurality of members present on a support and affixed thereto (e.g., by chemical bonding, physical attractive forces, coating, etc.).

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

LIQUID-PHASE SYNTHESIS

This terminology covers both solution-phase syntheses (i.e., reactions involving only one liquid phase) as well as syntheses in multiple liquid-phase systems (i.e., involving more than one liquid phase). The latter is concerned with syntheses performed on a liquid macromolecular compound such as polyethylene glycol (PEG), on dendrimers, or wherein a fluorocarbon phase is present in the system (fluorous synthesis).

MICRO-ORGANISMS

Bacteria; actinomycetales; single-celled fungi (e.g., yeast, etc.); virus, human, animal, or plant cells; tissues; protozoa; or unicellular algae.

PARTICULAR ATTACHMENT METHOD

Specific method of attachment focusing on the way molecules are bound to the solid or liquid support (e.g., by means of electrostatic interactions, formation of covalent bonds by cycloaddition reactions, or by irradiation, etc.).

RESIN CAPTURE

Method involving contacting the reaction medium with a solid support after a reaction is performed in solution in order to attach the reaction product to the resin and thus collect the reaction product easily.

SAFETY-CATCH LINKER

A linker which is cleaved by performing two different reactions instead of only one, thus providing greater control over the timing of compound release. In practice, the resin is "activated" before the actual cleavage takes place (e.g., cleavage by nucleophilic displacement of a previously alkylated sulfonamide resin, etc.).

SCREENING

Determining whether a library contains a member or members which have a particular property or activity of interest.

SOLID-PHASE SYNTHESIS

Synthetic process wherein the reactions are performed on a solid support, usually in the presence of a solvent (i.e., wherein one or more library building blocks are bound to a solid support, e.g., polymer, resin, glass beads, etc.) during library creation.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

SOLID SUPPORT

Insoluble, functionalized, polymeric material to which library members or other reagents may be attached (often via a linker) allowing library members to be readily separated (by filtration, centrifugation, etc.) from excess reagents, soluble reaction by-products, or solvents.

SOLUTION-PHASE SYNTHESIS

Synthesis performed in solution (i.e., wherein the reactants and reagents are all soluble in the reaction medium, irrespective of the fact that, for instance, a supported catalyst is used during the reaction). Solution-phase synthesis is also known as "synthesis in solution."

TRACELESS LINKER

Linker which does not leave any residue on the cleaved compound (i.e., which is replaced by a hydrogen atom).

VIRTUAL LIBRARY

A library which has no physical existence. This terminology encompasses two different types of libraries: in silico libraries and dynamic libraries.

SUBCLASSES

1

DIRECTED MOLECULAR EVOLUTION OF MACROMOLECULES (E.G., RNA, DNA, PROTEINS, ETC.):

Method under the class definition wherein a library of macromolecules, such as nucleic acids or proteins, is enriched in members having a property or activity of interest and involves cycles of taking a library, subjecting it to a screen to select for the desired property or activity, and amplifying the "hits" to provide the starting library for the subsequent cycle.

- (1) Note. "Mutations" may be introduced at the amplification stage in order to increase the diversity of the library.
- (2) Note. Directed molecular evolution involves aspects of creating and screening libraries.
- (3) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 10/00.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

2 METHOD SPECIALLY ADAPTED FOR IDENTIFYING A LIBRARY **MEMBER:**

Method under the class definition wherein the method is specially adapted to determine the exact nature (e.g., chemical structure, sequence listing, etc.) of a particular library member or of a particular subset of library members.

(1)Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 20/00.

SEE OR SEARCH CLASS:

- 435. Chemistry: Molecular Biology and Microbiology, subclasses 4 through 40.52 for testing processes involving micro-organisms and enzymes not specially adapted for combinatorial chemistry technology.
- Chemistry: Analytical and Immunological Testing, subclasses 500 through 542 436. for immunological tests and related subject matter, and for processes of analysis of chemical properties of a sample, physiological effect of a sample, or chemical determination of a physical property of a sample not specially adapted for combinatorial chemistry technology.

3 Identifying a library member by its fixed physical location on a support or substrate:

Method under subclass 2 wherein the exact nature of a library member is determined from its physical location in an array or arrangement.

- Note. The subject matter in this subclass is substantially the same in scope as (1)IPC C40B 20/02.
- Identifying a library member by means of a tag, label, or other readable or detectable entity associated with the library member (e.g., decoding process, etc.): Method under subclass 2 wherein the exact nature of a library member to which a surrogate analyte (tag, label, etc.) is associated is determined by using the surrogate analyte which is attached to a solid support on which the library members are assembled to define the reaction path to which the solid support was exposed and hence imply the structure of a member of a library or the reaction sequence for its preparation.
 - (1)Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 20/04.

4

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

5 Using an iterative deconvolution technique:

Method under subclass 2 wherein the exact nature of a library member is determined by a method of screening of compound pools, identifying the active pool(s), resynthesizing and rescreening sublibraries (smaller pools), wherein the number of compounds in the sublibraries gets smaller and smaller, until only a single compound is present in each pool, thereby leading to the identification of the active library member(s).

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 20/06.

6 Direct analysis of a library member, per se, by a physical method (e.g., spectroscopy, etc.):

Method under subclass 2 wherein the exact nature of a library member is directly determined by a physical (nonchemical) method.

- (1) Note. Physical methods include mass spectroscopy, nuclear magnetic resonance (NMR), etc.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 20/08.

7 METHOD OF SCREENING A LIBRARY:

Method under the class definition for determining whether a member or members of a library have a desired chemical, physical, or biological property or activity, without necessarily identifying the precise nature of the member or members being screened.

- (1) Note. A method of screening a library is provided for in this subclass if the method involves screening the library as a whole, and if the method recites a library-specific limitation. The library should be an intentionally created library testing set. The simple repetitive screening of an ordered array of subject materials in individual containers simultaneously or sequentially, without recitation of a library-specific limitation, would not meet this test.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/00.

SEE OR SEARCH CLASS:

435, Chemistry: Molecular Biology and Microbiology, subclasses 4 through 40.52 for testing processes involving micro-organisms and enzymes not specially adapted for combinatorial chemistry technology.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

436, Chemistry: Analytical and Immunological Testing, subclasses 500 through 542 for immunological tests and related subject matter, and for processes of analysis of chemical properties of a sample, physiological effect of a sample, or chemical determination of a physical property of a sample not specially adapted for combinatorial chemistry technology.

8 In silico screening:

Method under subclass 7 wherein the members of a library are selected by evaluating their desireability in a computational model.

- (1) Note. In silico screening is also known as virtual screening.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/02.
- By measuring the ability to specifically bind a target molecule (e.g., antibodyantigen binding, receptor-ligand binding, etc.):
 Method under subclass 7 wherein the members of a library are selected for their ability to principally attach to a target entity such as in antibody-antigen binding, biospecific ligand binding, etc.
 - (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/04.

10 By measuring the effect on a living organism, tissue, or cell:

Method under subclass 7 wherein members of a library are selected for their ability to produce a change in a living organism, tissue, or cell such as death, increased production of a product, etc.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/06.

11 By measuring catalytic activity:

Method under subclass 7 wherein members of a library are selected for their ability to catalyze reactions.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/08.

12 By measuring a physical property (e.g., mass, etc.):

Method under subclass 7 wherein members of a library are selected for a specific physical (nonchemical) property such as density, refractive index, mass, etc.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 30/10.

13 LIBRARY, PER SE (E.G., ARRAY, MIXTURE, IN SILICO, ETC.):

Subject matter under the class definition which is a created collection of a plurality of chemical compounds, biological entities (e.g., plasmid, bacterium, yeast cell, animal cell, etc.), or other materials wherein the collection is treated as a unit.

- (1) Note. The collection is useful as a test vehicle for determining which of its members possess(es) a useful property or activity.
- (2) Note. A library may exist as (a) a solution, (b) a physical admixture, (c) an ordered or unordered array, (d) a plurality of members present on a support and affixed thereto by chemical bonding, by physical attractive forces, or by coating, or (e) virtual or in silico (i.e., a library which is constructed solely in electronic form or on paper and has no physical existence).
- (3) Note. A natural product (e.g., plant extracts, etc.) is not considered as being a library, per se, for the purposes of this subclass, except where plural natural products are intentionally combined to make a library.
- (4) Note. Virtual or in silico libraries are classified as if they are physically existing entities (e.g., a virtual gene library is classified with the gene libraries, etc.).
- (5) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/00.
- 14 Library contained in or displayed by a micro-organism (e.g., bacteria, animal cell, etc.) or library contained in or displayed by a vector (e.g., plasmid, etc.) or library containing only micro-organisms or vectors: Library under subclass 13 wherein the library members are enclosed in or found on the

surface of a micro-organism or a vector such as a plasmid, or the library members are a grouping of micro-organisms or vectors (e.g., virus library, plasmid library, etc.).

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/02.

SEE OR SEARCH CLASS:

435, Chemistry: Molecular Biology and Microbiology, subclasses 235.1 through 239 for virus or bacteriophage, per se; subclasses 243-261 for micro-organism, per se; subclass 320.1 for virus vector or bacteriophage vector, per se; subclasses 325-408 for animal cell, per se; and subclasses 410-431 for plant cell, per se.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

15 Library containing only organic compounds:

Library under subclass 13 wherein the library members are solely organic compounds.

- (1) Note. An organic compound is defined as satisfying one of the following criteria: (a) at least two carbon atoms bonded to each other, or (b) one carbon atom bonded to at least one hydrogen atom or halogen atom, or (c) one carbon atom bonded to at least one nitrogen atom by a single or double bond. Exceptions to the above criteria are compounds consisting of only carbon atoms (e.g., fullerenes, etc.), cyanogen, cyanogen halides, cyanamide, metal carbides, hydrocyanic acid, isocyanic acid, isothiocyanic acid, fulminic acid, and salts of the previously mentioned acids. These exceptions are considered to be inorganic compounds for classification purposes.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/04.

16 Nucleotides or polynucleotides, or derivatives thereof:

Library under subclass 15 wherein the library members are nucleotides or polynucleotides (e.g., nucleic acids, oligonucleotides, etc.).

- (1) Note. A nucleotide is a phosphorylated nucleoside.
- (2) Note. Polynucleotides, also called nucleic acids, are covalently linked series of nucleotides in which the 3i position of the pentose of one nucleotide is joined by a phosphodiester group to the 5i position of the next.
- (3) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/06.

SEE OR SEARCH CLASS:

536, Organic Compounds, subclasses 22.1 through 29.13 for N-glycosides, per se, including nucleotides, nucleic acids, oligonucleotides, etc.

17 RNA or DNA which encodes proteins (e.g., gene library, etc.):

Library under subclass 16 wherein the library members are ribonucleic acids or deoxyribonucleic acids which carry the genetic code for making a specific protein.

- (1) Note. An example of an encoding nucleic acid library is a gene library.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/08.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

18 Peptides or polypeptides, or derivatives thereof:

Library under subclass 15 wherein the library members are compounds containing two or more amino acids joined covalently by peptide bonds (e.g., dipeptides, proteins, etc.).

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/10.

SEE OR SEARCH CLASS:

530, Chemistry: Natural Resins or Derivatives; Peptides or Proteins; Lignins or Reaction Products Thereof, subclasses 300 through 427 for peptides or proteins, per se.

19 Saccharides or polysaccharides, or derivatives thereof:

Library under subclass 15 wherein the library members are carbohydrates.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/12.

SEE OR SEARCH CLASS:

536, Organic Compounds, for carbohydrates, per se.

20 Macromolecular compounds (e.g., synthetic resins, rubber, etc.):

Library under subclass 15 wherein the library members are polymer compounds which are made up of many smaller monomer units joined together chemically.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/14.

21 Metal-containing organic compounds:

Library under subclass 15 wherein the library members are organic compounds which contain a metal.

- Note. A metal is an element other than hydrogen (H), boron (B), carbon (C), silicon (Si), nitrogen (N), phosphorus (P), oxygen (O), sulfur (S), selenium (Se), tellurium (Te), fluorine (F), chlorine (Cl), bromine (Br), iodine (I), astatine (At), helium (He), neon (Ne), argon (Ar), krypton (Kr), xenon (Xe), and radon (Rd).
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/16.

22 Library containing only inorganic compounds or inorganic materials: Library under subclass 13 wherein the library members are solely inorganic in nature.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- (1) Note. Inorganic compounds include compounds consisting of only carbon atoms (e.g., fullerenes, etc.), cyanogen, cyanogen halides, cyanamide, metal carbides, hydrocyanic acid, isocyanic acid, isothiocyanic acid, fulminic acid, and salts of the previously mentioned acids. They do not include compounds satisfying one of the following criteria: (a) at least two carbon atoms bonded to each other, or (b) one carbon atom bonded to at least one hydrogen atom or halogen atom, or (c) one carbon atom bonded to at least one nitrogen atom by a single or double bond.
- (2) Note. An inorganic material includes alloys composed of two or more metals which may be (a) chemically united, (b) in the form of a mixture, or (c) in solid solution.
- (3) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 40/18.

SEE OR SEARCH CLASS:

- 420, Alloys or Metallic Compositions, for alloys, per se, containing metal or metallic compositions which contain a continuous phase of metal and methods of making same not provided for elsewhere. This class will also take elemental metal, per se.
- 423, Chemistry of Inorganic Compounds, for inorganic compounds, per se, and nonmetallic elements, per se, and processes of producing by a chemical reaction.

23 METHOD OF CREATING A LIBRARY (E.G., COMBINATORIAL SYNTHESIS, ETC.):

Method under the class definition which is directed to the preparation of a library, which method may include simple physical admixture of components, synthesis via chemical reaction, synthesis via a biological process (e.g., microbial, enzymatic, etc.), or any other synthetic means.

- (1) Note. Combinatorial synthesis is the preparation of sets of diverse entities by the combination of sets of chemical building blocks (e.g., reagents, etc.).
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/00.

24 In silico or mathematical conception of a library:

Method under subclass 23 involving preparation of a library in electronic form or on paper to be used in the design and evaluation of potential libraries.

(1) Note. The building blocks for preparing an in silico library may not exist, and the chemical steps for creating such a library may not have been tested.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

(2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/02.

25 Using a dynamic combinatorial chemistry technique:

Method under subclass 23 for preparing a library involving a technique in which a target compound is introduced into a mixture of library constituents that are able to interconvert with each other chemically, wherein some of the library constituents bind to the target compound selectively and are therefore removed from the pool of interconverting species, thereby causing the equilibrium of the library solution to shift, favoring the production of species that bind to the target and minimizing the concentration of poorly binding library compounds.

- (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/04.
- 26 Biochemical method (e.g., using an enzyme or whole viable micro-organism, etc.): Method under subclass 23 for preparing a library involving the use of enzymes, vectors, micro-organisms, or antibodies.
 - (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/06.
- 27 Liquid-phase synthesis (i.e., wherein all library building blocks are in liquid phase or in solution during library creation) or particular method of cleavage from the liquid support used:

Method under subclass 23 wherein building blocks of a library are in a liquid phase during library creation or a specifically recited method of cleaving the library from the liquid support is used.

- (1) Note. For the purposes of this subclass, liquid-phase synthesis includes both solution-phase synthesis (i.e., synthesis involving only one liquid phase) and multiple liquid-phase synthesis (i.e., synthesis involving more than one liquid phase). The latter synthesis may involve synthesis performed on a liquid macromolecular compound (soluble support) such as polyethylene glycol (PEG), a dendrimers, or wherein a fluorocarbon phase is present in the system (i.e., fluorous synthesis).
- (2) Note. A soluble support is an attachment, common to all library members, which renders the library components soluble under conditions for library synthesis, but which can be readily separated from most other soluble components when desired by some simple physical process.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

- (3) Note. Fluorous synthesis is a type of solution-phase synthesis which takes advantage of the ability of highly fluorinated groups to partition out of aqueous and most organic solutions into a third phase comprising a fluorinated solvent.
- (4) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/08.

28 Involving an encoding step:

Method under subclass 27 wherein the method of preparing a library involves associating a unique tag (chemical or nonchemical) sequentially with each support when each library building block is added, therefore recording a history of building block additions which each support has been subjected to, during the entire synthesis.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/10.

29 Using a particular method of attachment to the liquid support:

Method under subclass 27 wherein a specific method of attachment of the library building blocks focuses on the way the building blocks are bound to the liquid support (e.g., by means of electrostatic interactions, formation of covalent bonds by cycloaddition reactions, irradiation, etc.).

- (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/12.
- 30 Solid-phase synthesis (i.e., wherein one or more library building blocks are bound to a solid support during library creation) or particular method of cleavage from the solid support used:

Method under subclass 23 wherein one or more of the building blocks of a library bound to a solid support (e.g., resin bead, etc.) during library creation or a specifically recited method of cleaving the library from the solid support is used.

- (1) Note. A solid support is an insoluble, functionalized, polymeric material to which library members or reagents may be attached (often via a linker) allowing them to be readily separated (by filtration, centrifugation, etc.) from excess reagents, soluble reaction by-products, or solvents.
- (2) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/14.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

31 Involving an encoding step:

Method under subclass 30 wherein the method of preparing a library involves associating a unique tag (chemical or nonchemical) sequentially with each solid support (e.g., bead, etc.) when each library building block is added, therefore recording a history of building block additions which each solid support has been subjected to, during the entire synthesis.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/16.

32 Using a particular method of attachment to the solid support:

Method under subclass 30 wherein a specific method of attachment of the library building blocks focuses on the way the building blocks are bound to the solid support (e.g., by means of electrostatic interactions, formation of covalent bonds by cycloaddition reactions, irradiation, etc.).

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 50/18.

33 APPARATUS SPECIALLY ADAPTED FOR USE IN COMBINATORIAL CHEMISTRY OR WITH A LIBRARY:

Apparatus under the class definition which is uniquely designed or specially adapted for use in combinatorial chemistry technology.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/00.

SEE OR SEARCH CLASS:

- 422, Chemical Apparatus and Process Disinfecting, Deodorizing, Preserving, or Sterilizing, subclasses 50 through 104 for apparatus for performing an analysis which involves a chemical or physical reaction not elsewhere provided for and subclasses 129-242 for carrying out chemical reactions.
- 435, Chemistry: Molecular Biology and Microbiology, subclasses 283.1 through 309.4 for apparatus for fermentation, enzymology, organ or tissue maintenance, or genetic engineering.

34 Integrated apparatus specially adapted for creating a library, screening a library, and for identifying a library member: Apparatus under subclass 33 which is specifically designed for performing the preparation of a library, the screening of library members for certain activities or properties, and the identification of the exact nature of particular library members.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/02.

35 Integrated apparatus specially adapted for both screening a library and identifying a library member:

Apparatus under subclass 33 which is specifically designed for performing the screening of library members for certain activities or properties and the identification of the exact nature of particular library members.

- (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/04.
- 36 Integrated apparatus specially adapted for both creating a library and identifying a library member:
 Apparatus under subclass 33 which is specifically designed for performing the preparation of a library and the identification of the exact nature of particular library

members.

- (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/06.
- **37 Integrated apparatus specially adapted for both creating and screening a library:** Apparatus under subclass 33 which is specifically designed for performing the preparation of a library and the screening of library members for certain activities or properties.
 - (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/08.

38 For identifying a library member:

Apparatus under subclass 33 which is specifically designed for performing the identification of the exact nature of particular library members.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/10.

39 For screening a library:

Apparatus under subclass 33 which is specifically designed for performing the screening of library members for certain activities or properties.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/12.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

40 For creating a library:

Apparatus under subclass 33 which is specifically designed for performing the preparation of a library.

- (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 60/14.
- 41 TAG OR LABEL SPECIALLY ADAPTED FOR COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., FLUORESCENT TAG, BAR CODE, ETC.): Subject matter under the class definition which is a tag or label unique for use in combinatorial chemistry techniques or unique as an identifier of a library or library members.
 - (1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 70/00.

42 LINKER OR SPACER SPECIALLY ADAPTED FOR COMBINATORIAL CHEMISTRY OR A LIBRARY (E.G., TRACELESS LINKER, SAFETY-CATCH LINKER, ETC.):

Subject matter under the class definition for use in combinatorial chemistry techniques which involves a chemical constituent which is used to connect a compound to a support or another compound in order to enhance a reaction outcome.

- (1) Note. A linker is a bifunctional molecule attaching a compound or first building block of a synthesis to a solid or soluble support which can be cleaved to release compounds from the support.
- (2) Note. A traceless linker is one which does not leave any residue on a compound after cleavage from a support (i.e., linker is replaced by a hydrogen atom).
- (3) Note. A safety-catch linker is cleaved by performing two different reactions instead of only one, thus providing greater control over the timing of compound release. For example, a sulfonamide resin is "activated" before the actual cleavage takes place (e.g., cleavage by nucleophilic displacement of a previously alkylated sulfonamide resin).
- (4) Note. A spacer is a chemical moiety used in solid-phase synthesis to influence reaction conditions, reduce steric hindrance, modify hydrophobicity, etc.
- (5) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 80/00.

43 MISCELLANEOUS:

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

Subject matter under the class definition which is not provided for in other subclasses.

(1) Note. The subject matter in this subclass is substantially the same in scope as IPC C40B 99/00.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 520 – SYNTHETIC RESINS OR NATURAL RUBBERS – PART OF THE CLASS 520 SERIES

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 530 – CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF

Subclass 200: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.
- Subclass 300: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a peptide library or a method of making said library.
- Subclass 350: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a protein library or a method of making said library.
- Subclass 500: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 532 – ORGANIC COMPOUNDS – PART OF THE CLASS 532 – 570 SERIES

Class Definition: After the last entry under SECTION II – LINES WITH OTHER CLASSES AND WITHIN THIS CLASS

Delete:

SECTION III – GLOSSARY

Insert:

SECTION III - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

SECTION IV – GLOSSARY

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 536 - ORGANIC COMPOUNDS - PART OF THE CLASS 532 - 570 SERIES

Subclass 1.11: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a carbohydrate library and a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 540 – ORGANIC COMPOUNDS – PART OF THE CLASS 532 – 570 SERIES

Subclass 1: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 585 – CHEMISTRY OF HYDROCARBON COMPOUNDS

Class Definition: After the last entry under SECTION II – LINES WITH OTHER CLASSES AND WITHIN THIS CLASS

Insert:

SECTION III – REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library or a process of creating said library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 702 - DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING

Class Definition: Under SECTION III – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico screening of a chemical or biological library.
- Subclass 19: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico screening of a chemical or biological library.
- Subclass 22: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico screening of a chemical or biological library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 703 – DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION

Class Definition: Under SECTION II – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico or mathematical conception of a chemical or biological library.
- Subclass 11: Under SEE OR SEARCH CLASS

Insert:

- 506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico or mathematical conception of a chemical or biological library.
- Subclass 12: Under SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for in silico or mathematical conception of a chemical or biological library.

PROJECT X-6295

D. CHANGES TO THE DEFINITIONS

CLASS 977 – NANOTECHNOLOGY

Class Definition: Under SECTION II – REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Insert:

506, Combinatorial Chemistry Technology: Method, Library, Apparatus, for a chemical or biological library, a process of creating said library, a process of testing involving said library, an apparatus specially adapted for creating or testing involving said library, or tags, labels, or linkers specially adapted for use in combinatorial chemistry techniques.