

U. S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1866

SEPTEMBER 4, 2007

PROJECT C-7029

**The following classification changes will be effected by this order:**

	<u>Class</u>	<u>Subclass</u>	<u>Art Unit</u>	<u>Ex'r Search Room</u>
<b>Abolished:</b>	525	440	1712	OS0001
<b>Established:</b>	525	440.01-440.07, 440.071, 440.072, 440.08, 440.09, 440.11-440.16	1712	OS0001

**No other classes were impacted by this order.**

**This order includes the following:**

- A. CLASSIFICATION MANUAL CHANGES
- B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES
- C. CHANGES TO THE USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1866

SEPTEMBER 4, 2007

Project No. C-7029

**Project Leader:** Terrence M. Mackey

**Project Classifier:** Ed Ward

**Editor:** James E. Doyle, Jr.

**Editorial Assistant:** Louise Bogans

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This Class 525 is considered to be an integral part of Class 520 (see the Class 520 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 520

		16	...Material contains Group VB metal atom (V, Nb, Ta)
		17	...Material contains Group VIII metal atom (Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt)
		18	...Material contains Group IVA metal atom (Ge, Sn, Pb)
		19	...Material contains Group IIA metal atom (Be, Mg, Ca, Sr, Ba, Ra)
7	.ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH A PREFORMED REACTION PRODUCT DERIVED FROM: (a) AT LEAST ONE POLYCARBOXYLIC ACID, ESTER, OR ANHYDRIDE; (b) AT LEAST ONE POLYHYDROXY COMPOUND; AND (c) AT LEAST ONE FATTY ACID GLYCEROL ESTER, OR A FATTY ACID OR SALT DERIVED FROM A NATURALLY OCCURRING GLYCERIDE, TALL OIL, OR A TALL OIL FATTY ACID	20	...Specified material contains phosphorus atom
7.1	..Mixed in the presence of a specified material	21	...Specified material contains ketone group
7.2	..Mixed with silicon-containing reactant or polymer derived therefrom	22	...Specified material contains an aldehyde or derivative thereof
7.3	..Mixed with aldehyde or derivative as reactant or polymer derived therefrom	23	...Specified material contains sulfur atom
7.4	..Mixed with previously formed solid polymer or SPFI	24	...Sulfur is part of heterocyclic ring
8	.ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH A PREFORMED REACTION PRODUCT DERIVED FROM: (a) AT LEAST ONE POLYCARBOXYLIC ACID, ESTER, OR ANHYDRIDE; (b) AT LEAST ONE POLYHYDROXY COMPOUND; AND (c) AT LEAST ONE NATURAL RESIN, PROTEIN, OR BIOLOGICALLY ACTIVE POLYPEPTIDE, OR CARBOHYDRATE OR DERIVATIVE	25	...Specified material contains nitrogen atom
10	.ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH EITHER (A) A POLYMER DERIVED FROM A SATURATED DI- OR HIGHER ESTER OF A POLYCARBOXYLIC ACID AS SOLE REACTANT, OR (B) REACTION PRODUCT OF ONLY POLYCARBOXYLIC ACIDS OR ANHYDRIDES WITH ONLY COMPOUNDS HAVING AT LEAST TWO HYDROXYL GROUPS AT LEAST ONE OF WHICH IS SATURATED AND WHEREIN THE REACTION PRODUCT FORMED IS NOT AFTERTREATED PRIOR TO ADMIXTURE WITH THE UNSATURATED REACTANT EXCEPT WITH A POLYCARBOXYLIC ACID, POLYCARBOXYLIC ACID ANHYDRIDE, OR A POLYOL, AND WHEREIN NO SOLID POLYMER DERIVED FROM ETHYLENIC REACTANTS ONLY IS MIXED THEREWITH	26	...Nitrogen is part of heterocyclic ring
11	..Mixed in presence of specified material or a polymerizable composition contains a specified material	27	...Specified material contains a peroxy group, i.e., -O-O-
12	...Specified material contains boron or silicon atom	28	..Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen)
13	...Specified material contains metal atom other than from group IA metal atom (Li, Na, K, Rb, Cs, Fr)	29	..Mixed with silicon-containing reactant or polymer derived therefrom
14	....Material contains Group IB metal atom (Cu, Ag, Au)	30	..Mixed with a solid polymer or specified intermediate condensation product derived from at least one amine-, N-C(=X)- or N-S-(=O)- containing reactant and at least one aldehyde or aldehyde-type reactant (X is chalcogen)
15	....Material contains Group IIB metal atom (Zn, Cd, Hg) or IIIA metal atom (Al, Ga, In, Tl)	31	..Mixed with an 1,2-epoxy compound containing more than one 1,2-epoxy group per mole or polymer derived therefrom
		32	..Mixed with a phenolic reactant and an aldehyde or aldehyde-type reactant or reaction product thereof
		32.1	..Polymer derived from polycarboxylic acid and polyhydroxyl compound is derived from at least one polycarboxylic acid reactant which is a dimer or trimer of an ethylenically unsaturated aliphatic monocarboxylic acid having at least ten carbon atoms; or adducts of said unsaturated monocarboxylic acid with an alpha, beta ethylenically unsaturated carboxylic acid or derivative
		32.2	..Ethylenic reactant or polymer derived from polycarboxylic acid or anhydride and polyol is derived from a carbohydrate or derivative

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	SYNTHETIC RESINS (Class 520, Subclass 1)	46	...Polymer mixed with unsaturated reactant containing nitrogen atom
	.ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH EITHER (A) A POLYMER DERIVED FROM A SATURATED DI- OR HIGHER ESTER OF A POLYCARBOXYLIC ACID AS SOLE REACTANT, OR (B) REACTION PRODUCT OF ONLY POLYCARBOXYLIC ACIDS OR ANHYDRIDES WITH ONLY COMPOUNDS HAVING AT LEAST TWO HYDROXYL GROUPS AT LEAST ONE OF WHICH IS SATURATED AND WHEREIN THE REACTION PRODUCT FORMED IS NOT AFTERTREATED PRIOR TO ADMIXTURE WITH THE UNSATURATED REACTANT EXCEPT WITH A POLYCARBOXYLIC ACID, POLYCARBOXYLIC ACID ANHYDRIDE, OR A POLYOL, AND WHEREIN NO SOLID POLYMER DERIVED FROM ETHYLENIC REACTANTS ONLY IS MIXED THEREWITH	47	...Unsaturated reactant contains nitrogen heterocycle
		48	...Polymer mixed with unsaturated carboxylic acid, ester, salt, or anhydride
		49	...Polymer mixed with unsaturated aromatic compound
		50	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS
33	..Polymer derived from polycarboxylic acid and polyhydroxy compound is derived from at least one polycarboxylic acid containing at least three carboxyl groups or more than one anhydride group	51	..Effecting a change in a process in response to a measurement or test
		52	..Utilizing a tubular or loop reactor
		53	..Utilizing an apparatus with two or more physically distinct zones
		54	..Removing and recycling material from one zone to another
34	..Polymer derived from polyhydroxy reactant and polycarboxylic acid is derived from at least one reactant containing at least three hydroxyl groups	54.1	..Containing chemically combined protein or biologically active polypeptide
		54.11	...Solid polymer treated by stepwise reaction with naturally occurring alpha or beta amino acid or a material which contains a residue of said amino acid, e.g., a functionally protected amino acid, etc.
35	..Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound is derived from at least two polycarboxylic acid reactants or two polycarboxylic acid anhydrides or mixture thereof	54.2	..Previously formed solid polymer chemically reacted with carbohydrate or derivative
36	...At least one of said polycarboxylic acid reactants or anhydrides contains ethylenic unsaturation	54.21	...Cellulose or derivative as chemical reactant
37	....Polymer mixed with unsaturated reactant containing phosphorus atom	54.22	....Previously formed solid polymer is derived from N=C=X reactant or contains N=C=X group wherein X is chalcogen
38	....Polymer mixed with unsaturated reactant containing nitrogen atom	54.23	....Previously formed solid polymer is derived from ethylenically unsaturated reactants only
39	....Polymer mixed with unsaturated reactant containing carboxylic acid, ester, salt or anhydride group	54.24	...Starch, starch flour or meal, or derivative as chemical reactant
40	....Polymer mixed with unsaturated reactant containing aryl ring	54.26	....Previously formed solid polymer derived from ethylenic reactants only
41	..Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound is derived from at least two polyhydroxy compounds	54.3	..Previously formed solid polymer containing chemically combined carbohydrate admixed with a chemical treating or ethylenic agent, SPFI, SICP, or solid polymer
42	..Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound is derived from polyhydroxy compound containing ether linkage	54.31	...Carbohydrate containing polymer is derived from starch, or starch containing flour or meal
43	..Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound wherein at least one of the reactants contains ethylenic unsaturation	54.32	...Carbohydrate containing polymer derived from acrylonitrile
44	...Polymer mixed with unsaturated reactant containing two or more unsaturated groups		
45	....Wherein unsaturated reactant contains three nitrogen atoms in the same ring		

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

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	SYNTHETIC RESINS (Class 520, Subclass 1)	66	.....With solid polymer derived from at least one nitrogen-containing reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients contains a nitrogen atom or with a reaction product thereof; or with nitrogen-containing SICP
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS		
54.4	..Containing chemically combined natural resin or derivative thereof other than tall oil	67	.....With solid polymer derived from at least one hal-C(=O)-hal, O-C(=O)-O or hal-C(=O)-O- reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a hal-C(=O)-hal, O-C(=O)-O, or hal-C(=O)-O containing reactant or reaction product thereof; or with a SICP containing a hal-C(=O)- or O-C(=O)-O- group
54.41	...Shellac		
54.42	...Previously formed solid polymer chemically reacted with natural resin or derivative		
54.44	....At least one previously formed solid polymer derived from ethylenic monomers only		
54.45	...Previously formed solid polymer containing chemically combined natural resin or derivative admixed with an ethylenic agent or a chemical treating agent other than SICP or SPFI	68	.....With solid polymer derived from at least one phenolic reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a phenolic reactant or with a reaction product thereof; or with phenolic-containing SICP
54.5	..Chemically combined coal, bituminous material, extract, or derivative thereof; oil shale; or fatty still residue		
55	..At least one solid polymer derived from ethylenic reactants only		
56	...Polyvinyl alcohol	69	....Solid graft or graft-type copolymer contains backbone derived from ethylenic reactants only
57	....With solid polymer derived from ethylenic reactants only		
58	....With SICP, SPFI, or polymer thereof	70	...Mixing of solid graft or graft-type copolymer derived from ethylenic reactants only with other solid polymer derived from ethylenic reactants only; or treating said mixture with chemical treating agent; or processes of forming or reacting; or the resultant product of any of the above operations
59	....With ethylenic reactant		
60	....Interpolymers		
61	....Chemical modification utilizing a chemical treating agent		
62	....Processes only of preparing polyvinyl alcohol		
63	...Mixing of solid graft or graft-type copolymer with other solid polymer wherein one of said solid polymers is not derived from ethylenic reactants only; mixing of said polymer mixture with a chemical treating agent; or mixing of graft or graft-type copolymer with a SICP or SPFI; or processes of forming or reacting; or the resultant product of any of the above operations	71	....Contains two or more graft or graft-type copolymers or a graft or a graft type copolymer and at least one block or block-type copolymer
		72	....Mixture contains solid polymer derived from reactants containing an atom other than C, H, O, N, or chlorine
		73	....Mixture contains solid polymer derived from reactant containing nitrogen heterocycle
64	....Solid graft or graft-type copolymer derived from ethylenic reactants only		
65	.....With saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom; or with solid copolymer derived from at least one unsaturated 1,2-epoxy reactant wherein the epoxy reactant contains more than one 1,2-epoxy group per mole and at least one saturated reactant		

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SYNTHETIC RESINS (Class 520, Subclass 1)			block-type copolymer with SICP or with SPFI; or processes of forming or reacting; or the resultant product of any of the above operations
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	89	....Mixture contains two or more solid block or block-type copolymers
	..At least one solid polymer derived from ethylenic reactants only	90	....Mixture contains solid block copolymer wherein at least one block is derived from ethylenic reactants only and at least one block is derived from at least one saturated reactant
	...Mixing of solid graft or graft-type copolymer derived from ethylenic reactants only with other solid polymer derived from ethylenic reactants only; or treating said mixture with chemical treating agent; or processes of forming or reacting; or the resultant product of any of the above operations	91	.....Block derived from at least one saturated reactant containing a heterocycle
74	....Mixture contains solid polymer derived from reactant containing oxygen heterocycle	92 R	....Mixture contains solid polymer derived from at least one saturated reactant, SICP, or SPFI
75	....Mixture contains solid polymer derived from reactant containing a fused- or bridged-ring system or from cycloaliphatic reactant	92 A	.....Solid block or block-type copolymer derived from saturated reactants only
76	....Mixture contains solid polymer derived from chlorine-containing reactant other than from vinyl(idene) chloride	92 B	.....Solid polymer derived from a lactam; from an amino carboxylic acid or derivative; from a polyamine and a polycarboxylic acid or derivative
77	....Mixture contains solid polymer derived from reactant containing nitrogen other than from (meth)acrylonitrile	92 C	.....Solid polymer derived from -N=C=X reactant, wherein X is chalcogen
78	....Mixture contains solid polymer derived from reactant containing carboxylic acid group	92 D	.....Solid polymer derived solely from a phenolic reactant or derivative thereof, wherein no reactant contains a plurality of methylol groups
79	....Mixture contains solid polymer derived from reactant containing ether or hydroxyl group	92 E	.....Solid polymer derived from -O-C(=O)-O- or hal-C(=O)- containing reactant
80	....Mixture contains solid polymer derived from reactant containing carboxylic acid ester group	92 F	.....Solid polymer derived from polyhydroxy reactant and polycarboxylic acid or derivative
81	.....Reactant contains at least two ester groups	92 G	.....Solid polymer derived from silicon-containing reactant
82	.....Ester derived from a polyol	92 H	.....Solid polymer derived from saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per molecule
83	.....Substrate polymer derived from hydrocarbon containing plural unsaturation	92 J	.....Solid polymer derived from sulfur-containing reactant
84	.....Polymer substrate derived from hydrocarbon reactants only	92 K	.....Solid polymer derived from saturated aldehyde or aldehyde derivative material
85	.....Polymer substrate derived from an unsaturated carboxylic acid ester	92 L	.....Solid polymer derived from heterocyclic material
86	....Mixture contains solid polymer derived from nonaromatic reactant containing plural ethylenically unsaturated groups	92 M	.....Solid polymer derived from saturated ketone reactant
87	.....Solid polymer other than graft or graft-type derived from nonaromatic plural ethylenically unsaturated reactant	93	....Mixture contains solid polymer derived from reactant containing chalcogen
88	...Mixing of solid block or block-type copolymer with other solid polymer; mixing of said polymer mixture with a chemical treating agent; mixing of a block or		

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	SYNTHETIC RESINS (Class 520, Subclass 1)	104	....Solid polymer from ethylenic reactants only is derived from reactant containing halogen atom
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	105	....Solid polymer from ethylenic reactants only is derived from plural unsaturated hydrocarbon
	..At least one solid polymer derived from ethylenic reactants only	106	....Solid polymer from ethylenic reactants only is derived from unsaturated hydrocarbon
	...Mixing of solid block or block-type copolymer with other solid polymer; mixing of said polymer mixture with a chemical treating agent; mixing of a block or block-type copolymer with SICP or with SPFI; or processes of forming or reacting; or the resultant product of any of the above operations	107	...With saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom; or with solid copolymer derived from at least one saturated reactant and at least one unsaturated 1,2-epoxy reactant wherein the epoxy reactant contains more than one 1,2-epoxy group per mole
	....Mixture contains solid polymer derived from reactant containing chalcogen	108	....Contacting two or more solid polymers derived from ethylenic reactants only with a poly 1,2-epoxy-containing reactant; or contacting a solid polymer derived from ethylenic reactants only with a poly 1,2-epoxy-containing reactant and subsequently contacting with an additional polymer derived from ethylenic reactants only
94	.....Solid block or block-type copolymer derived from reactant containing carboxylic acid ester group		
95	....Mixture contains solid block or block-type copolymer derived from ethylenically unsaturated hydrocarbon reactants only at least one of which contains at least four carbon atoms	109	....With phenolic reactant or polymer thereof and is free of 1,2-epoxy groups
96	.....With solid polymer derived from reactant containing an atom other than C, H or chalcogen	110	....With reactant which is an aldehyde, aldehyde derivative, or polymer thereof, and which is free of an 1,2-epoxy group (included herein are alkylated methylol groups)
97	.....Mixture contains solid polymer derived from reactant containing a fused- or bridged-ring system	111	....With reactant which is free of an 1,2-epoxy group and which contains a -N=C-X group or polymer thereof (X is chalcogen); or with a polyol and a polycarboxylic acid or reaction product thereof which is free of an 1,2 epoxy group
98	.....Solid block or block-type copolymer derived from reactant containing plural unsaturation		
99	.....With solid polymer derived from reactant containing plural unsaturation		
100	...With saturated Si-C or Si-H reactant or polymer thereof; or with solid copolymer derived from at least one Si-C or Si-H reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients contains a Si-C or Si-H bond or with a reaction product thereof; or with a SICP containing a Si-H or Si-C bond	111.5	....With a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil
101	....Contacting with nonsilicon-containing SICP, nonsilicon-containing SPFI, or polymer thereof; or with two or more solid polymers	112	....Contacting polymer from ethylenic reactants only with ethylenic reactant wherein said contacting is either concurrent with or subsequent to the contacting with the saturated poly 1,2-epoxy reactant
		113	....With nitrogen-containing reactant, or wherein the poly 1,2-epoxy reactant contains a nitrogen atom
102	....Si-H or Si-C reactant contains an atom other than C, H, O, or Si bonded to a carbon atom	114	....With additional heterocyclic reactant free of 1,2-epoxy group
103	....Solid polymer from ethylenic reactants only is derived from heterocyclic reactant		

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SYNTHETIC RESINS (Class 520, Subclass 1)			thereto a solid polymer derived only from ethylenic reactants
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	126	....Contacting solid polymer from ethylenic reactants only with ethylenic reactant wherein said contacting is either concurrent with or subsequent to contacting of said solid polymer with the -N=C=X reactant or polymer thereof
	..At least one solid polymer derived from ethylenic reactants only	127	....Contacting with a -N=C=X-containing reactant which has been previously reacted with an organic compound containing a hydroxyl, amine, or -C(=O)-O-group
	...With saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom; or with solid copolymer derived from at least one saturated reactant and at least one unsaturated 1,2-epoxy reactant wherein the epoxy reactant contains more than one 1,2-epoxy group per mole	128	.....-N=C=X reactant has been previously reacted with an organic amine
		129	.....Solid polymer from ethylenic reactants only derived from halogen-containing reactant
115	....Poly 1,2-epoxy reactant contains an atom other than C, H, or O	130	.....Solid polymer from ethylenic reactants only derived from hydrocarbon reactant
116	....Polymer derived from ethylenic reactants only derived from reactant containing an atom other than C, H, N, O, or halogen	131	....Contacting with -N=C=X-containing reactant and with additional organic reactant containing a hydroxyl or amine group or polymer thereof
117	....Polymer derived from ethylenic reactants only derived from heterocyclic reactant	132	...With saturated phenolic reactant or polymer thereof; or with solid copolymer derived from at least one phenolic reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a phenolic reactant or with a reaction product thereof; or with a SICP containing a phenolic group Si-H or Si-C bond
118	....Polymer derived from ethylenic reactants only derived from reactant containing an alcohol or ether group (includes phenols)		
119	....Polymer derived from ethylenic reactants only derived from reactant containing a -COOH group		
120	....Polymer derived from ethylenic reactants only derived from nonaromatic monoolefin		
121	....Polymer derived from ethylenic reactants only derived from reactant containing a halogen atom	133	....Contacting two or more solid polymers with a phenolic reactant; or contacting a solid polymer with a phenolic reactant and subsequently contacting the treated polymer with an additional solid polymer
122	....Polymer derived from ethylenic reactants only derived from unsaturated hydrocarbon		
123	...With saturated -N=C=X (X is chalcogen) reactant or polymer thereof; or with solid copolymer derived from at least one -N=C=X reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients contains a -N=C=X group or with a reaction product thereof; or with SICP containing a -N=C=X group	133.5	....With a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil
		134	....Contacting with aldehyde or aldehyde-type reactant or polymer therefrom
		135	.....At least two distinct phenols, phenol ethers, inorganic phenolates, or mixtures thereof prior to reaction with aldehyde or aldehyde-type reactant derived from tall oil
124	....Blocked isocyanate reactant		
125	....Contacting two or more solid polymers derived from ethylenic reactants only with a -N=C=X reactant or polymer thereof; or contacting a polymer derived from an ethylenic reactant only with a -N=C=X reactant or polymer thereof and subsequently adding		



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	SYNTHETIC RESINS (Class 520, Subclass 1)	145	.....Solid polymer derived from ethylenic reactants only is derived from an acyclic hydrocarbon
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	146	....With a -O-C(=O)-O-, -O-C(=O)-hal or hal-C(=O)-hal group-containing reactant or polymer thereof
	..At least one solid polymer derived from ethylenic reactants only	147	.....Two or more diverse phenolic reactants; or phenolic reactant contains an atom other than C, H, or O
	...With saturated phenolic reactant or polymer thereof; or with solid copolymer derived from at least one phenolic reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a phenolic reactant or with a reaction product thereof; or with a SICP containing a phenolic group Si-H or Si-C bond	148	.....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a carboxylic acid or derivative thereof
	....Contacting with aldehyde or aldehyde-type reactant or polymer therefrom	149	....Contains ethylenic reactant other than from a solid polymer derived from ethylenic reactants only, e.g., reaction product from a phenol and unsaturated hydrocarbon, etc.
136	.....Phenolic reactant prior to contact with aldehyde or aldehyde-type reactant contains an atom other than C, H, or O	150	....Phenolic reactant contains a phosphorus or sulfur atom or with phosphorus- or sulfur-containing reactant
137	.....Phenolic reactant prior to contact with aldehyde or aldehyde-type reactant contains at least two aryl rings each of which contains phenolic substituents	151	....Solid polymer derived from ethylenic reactants only is derived from a reactant containing at least one halogen atom
138	.....With nonethylenic, nonaldehyde, or nonaldehyde-type reactant containing an atom other than C, H, or O	152	....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a polycyclic ring system or two or more ethylenic groups
139	.....Solid polymer derived from ethylenic reactants only is derived from reactant containing at least two ethylenic groups	153	...With saturated ketone reactant or polymer thereof; or with solid copolymer derived from at least one ketone reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a ketone or with a reaction product thereof; or with a SICP containing a ketone group
140	.....Phenolic reactant has at least two nuclear carbon atoms directly bonded to extracyclic carbon atoms which extracyclic carbon atoms are not part of a methylol group	154	...With saturated aldehyde or aldehyde derivative (including methylol ethers or condensates) reactant or solid polymer thereof; or with solid copolymer derived from at least one aldehyde or aldehyde derivative reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is an aldehyde or aldehyde derivative reactant or with a reaction product thereof; or with SICP containing an aldehyde or aldehyde derivative
141	.....Solid polymer from ethylenic reactants only is derived from both a reactant containing two ethylenic groups and an acyclic monoethylenic hydrocarbon		
142	.....Solid polymer derived from ethylenic reactants only is derived from a nitrogen-containing reactant		
143	.....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a carboxylic acid or derivative thereof		
144	.....Solid polymer derived from ethylenic reactants only is derived from a reactant containing at least one halogen atom		

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SYNTHETIC RESINS (Class 520, Subclass 1)			anhydride group which produces the fused- or bridged-ring system or heterocyclic ring
	.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	162	.....Solid polymer derived from ethylenic reactant only derived from reactant containing hydroxyl or ether group
	..At least one solid polymer derived from ethylenic reactants only	163	.....Solid polymer derived from ethylenic reactants only containing a carboxylic acid, ester, or anhydride group
	...With saturated aldehyde or aldehyde derivative (including methylol ethers or condensates) reactant or solid polymer thereof; or with solid copolymer derived from at least one aldehyde or aldehyde derivative reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is an aldehyde or aldehyde derivative reactant or with a reaction product thereof; or with SICP containing an aldehyde or aldehyde derivative	164	.....Solid polymer derived from unsaturated hydrocarbon
	155	165	...With polycarboxylic acid or derivative and a polyol at least one of which is saturated, a condensate or solid polymer thereof; or with solid polymer derived from at least one polycarboxylic acid or derivative and at least one polyol wherein at least one the reactants forming the solid polymer is saturated
	....Contacting two or more solid polymers derived from ethylenic reactants only with an aldehyde or aldehyde-type reactant; or contacting a polymer derived from ethylenic reactant and subsequently contacting with a solid polymer derived from ethylenic reactants only	166	....Two or more solid polymers present other than derived from a polycarboxylic acid or derivative and a polyol
	156	167	....Polycarboxylic acid or derivative or polyol contains an atom other than C, H, or O; or wherein a polycarboxylic acid or derivative or polyol or condensate thereof is reacted with a reactant containing atoms other than C, H, or O prior to blending with the solid polymer; or wherein a coreactant with the polycarboxylic acid or derivative or polyol contains an atom other than C, H, or O
	....Contacting with a hydrocarbon and an aldehyde or aldehyde derivative as reactants at least one of which is saturated, their condensate or solid polymer thereof	167.5	....With a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil
	157	168	....Polycarboxylic acid or derivative, polyol, or other coreactant contains an ethylenic group; or wherein a condensate thereof has been prepared from a polycarboxylic acid or derivative and a polyol and subsequently reacted with an ethylenic reactant
	....Contacting with an amine, a material containing a N-C(=X)- or N-S(=O)- (X is chalcogen) reactant and an aldehyde or aldehyde derivative at least one of which is saturated, their condensate or solid polymer thereof	169	.....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an atom other than C, H, or O
	158	170	.....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an oxygen atom
	.....Reactant, condensate, or solid polymer contains an element other than C, H, N, or O; or wherein a coreactant is not an aldehyde or aldehyde-type reactant, alcohol, amine, or reactant containing a N-C(=O)-group		
	159		
	.....Reactant derived from alcohol containing an aryl group or eight or more carbon atoms		
	160		
	.....Solid polymer derived from ethylenic reactants only contains an element other than C, H, O, or N		
	161		
	.....Solid polymer derived from ethylenic reactants only derived from reactant containing a heterocyclic ring or fused-, bridged-ring system excluding an		

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

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## SYNTHETIC RESINS (Class 520, Subclass 1)

	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS		derivative, or from a polyamine salt of a polycarboxylic acid
	..At least one solid polymer derived from ethylenic reactants only		....Polycarboxylic acid or derivative contains three or more carboxylic acid groups; or polyamine contains three or more amino groups; or from an amino containing polycarboxylic acid or derivative other than amine solely in salt form; or from polyamino carboxylic acid or derivative other than wherein amino groups are solely in salt form
	...With polycarboxylic acid or derivative and a polyol at least one of which is saturated, a condensate or solid polymer thereof; or with solid polymer derived from at least one polycarboxylic acid or derivative and at least one polyol wherein at least one the reactants forming the solid polymer is saturated	181	....With ethylenically unsaturated reactant; or reactant contains a heterocyclic ring other than solely as a lactam or cyclic anhydride of a polycarboxylic acid
	....Polycarboxylic acid or derivative, polyol, or other coreactant contains an ethylenic group; or wherein a condensate thereof has been prepared from a polycarboxylic acid or derivative and a polyol and subsequently reacted with an ethylenic reactant	182	....Solid polymer derived from ethylenically unsaturated reactant only is one derived from a reactant containing a heterocyclic ring and is other than solely a cyclic anhydride of a polycarboxylic acid
171	.....Solid polymer derived from ethylenic reactants only derived from at least one hydrocarbon reactant containing at least two ethylenic groups	183	....Solid polymer derived from ethylenically unsaturated reactant only is derived from a reactant containing a carboxylic acid or derivative
172	....Polycarboxylic acid or derivative contains three or more carboxylic acid groups or derivatives thereof; or wherein a polyol contains at least three hydroxyl groups	184	....Solid polymer derived from ethylenically unsaturated hydrocarbon
173	....From two or more polyols	185	...With additional solid polymer derived from at least one nonethylenic reactant
174	....From two or more carboxylic acids or derivatives thereof	186	....At least one reactant which forms additional polymer contains a heterocyclic ring
175	....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an atom other than C, H, O, or Hal	187	....Heterocyclic ring is an 1,2-epoxy ring
176	....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an oxygen atom	188	....At least one reactant which forms additional polymer contains a phosphorus atom
177	....Solid polymer derived from ethylenic reactants only derived from unsaturated hydrocarbon	189	....At least one reactant which forms additional polymer contains a sulfur atom
178	...With a polycarboxylic acid or derivative and a polyamine or the corresponding salt thereof; or with a lactam; or with an aminocarboxylic acid; or with the corresponding polymers; and wherein the monomer or polymer was derived from at least one saturated reactant	190	....At least one reactant which forms additional polymer contains a carboxylic acid or derivative
179	....Two or more solid polymers other than prepared from a polycarboxylic acid or derivative and a polyamine, a lactam, an aminocarboxylic acid or	191	...Polymer mixture of two or more solid polymers derived from ethylenically unsaturated reactants only; or mixtures of said polymer mixture with a chemical treating agent; or products or processes of preparing any of the above mixtures
		192	....Treating polymer or polymer mixture with a chemical treating agent other than solid polymer
		193	....Agent contains an ethylenic group

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	SYNTHETIC RESINS (Class 520, Subclass 1)	213	....Solid polymer derived from chlorine-containing reactant other than vinyl(idene) chloride
	.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN	214	.....Halogenated hydrocarbon other than vinyl(idene) chloride
	ETHYLENIC AGENT; MIXING OF SOLID		
	POLYMER WITH A CHEMICAL TREATING OR	215	.....Halogenated hydrocarbon contains at least two ethylenic groups and is devoid of an aryl ring
	ETHYLENIC AGENT; OR PROCESSES OF		
	FORMING OR REACTING; OR THE		
	RESULTANT PRODUCT OF ANY OF THE	216	....Solid polymer derived from cycloaliphatic-containing reactant
	ABOVE OPERATIONS		
	..At least one solid polymer derived		
	from ethylenic reactants only	217	....Solid polymer derived from reactant containing nitrogen atom other than from (meth)acrylonitrile
	...Polymer mixture of two or more solid		
	polymers derived from		
	ethylenically unsaturated	218	.....Nitrogen reactant contains a carboxylic acid amide group
	reactants only; or mixtures of		
	said polymer mixture with a	219	....Solid polymer derived from reactant containing a phenolic group
	chemical treating agent; or		
	products or processes of preparing	220	....Solid polymer derived from reactant containing a carbonyl group other than as part of a carboxylic acid or derivative
	any of the above mixtures		
	....Treating polymer or polymer mixture		
	with a chemical treating agent		
	other than solid polymer	221	....Solid polymer derived from reactant containing a carboxylic acid group
194	.....Agent is an organic material		
195	.....Contains a metal atom		
196	.....Agent contains a metal atom		
197	....Specified blending process	222	....Solid polymer derived from reactant containing a carboxylic acid ester group
198	....With subsequent physical treatment		
199	....Solid polymer derived from		
	fluorine-containing ethylenic	223	....Ester contains an oxygen atom other than as part of a carboxylic acid ester group
	reactant		
200	....Fluorine reactant contains atoms		
	other than C, H, or Hal	224	....Ester derived from both an unsaturated carboxylic acid and an unsaturated alcohol
201	....Solid polymer derived from		
	metal-containing ethylenic	225	....Ester contains at least two carboxylic acid ester groups
	reactant		
202	....Solid polymer derived from reactant	226	.....Ester derived from polyol
	containing an acetylenic group	227	.....Ester derived from an unsaturated carboxylic acid
203	....Solid polymer derived from ethylenic		
	reactant containing a	228	.....At least two polymers derived from carboxylic acid ester reactants
	heterocyclic nitrogen		
204	.....Heterocyclic reactant contains at	229	.....Ester derived from an unsaturated alcohol
	least two hetero atoms in the		
	same ring and at least one of	230	.....Polymer derived from nitrogen-containing reactant
	which is nitrogen		
205	....Heterocyclic reactant is an imide	231	....Solid polymer derived from oxygen-containing reactant
	or lactam		
206	....Solid polymer derived from reactant	232	....Solid polymer derived from reactant containing at least two ethylenic groups and is devoid of aryl ring
	containing a chalcogen atom (O,		
	S, Se, Te) as part of a	233	....Polymer derived from nitrogen-containing reactant
	heterocyclic ring		
207	.....Heterocyclic reactant contains	234	.....At least two polymers derived from nitrogen-containing reactants
	anhydride group		
208	....Heterocyclic reactant contains	235	....Polymer derived from halogen-containing reactant
	1,2-epoxy group		
209	....Solid polymer derived from reactant	236	....At least two polymers derived from reactants containing two or more ethylenic groups and devoid of an aryl ring
	containing elements other than C,		
	H, O, N, S, or Cl		
210	....Solid polymer derived from reactant		
	containing a fused- or bridged-		
	ring system		
211	.....Fused- or bridged-ring reactant		
	contains at least two ethylenic		
	groups		
212	....Solid polymer derived from		
	sulfur-containing reactant		

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	SYNTHETIC RESINS (Class 520, Subclass 1)	254	.....Specified material contains silicon atom
	.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH	255	.....Specified material contains a phosphorus atom
	SICP OR SPFI; MIXING OF SICP WITH AN		
	ETHYLENIC AGENT; MIXING OF SOLID	256	.....Specified material contains a heterocyclic ring
	POLYMER WITH A CHEMICAL TREATING OR		
	ETHYLENIC AGENT; OR PROCESSES OF	257	.....Specified material contains a ketone group
	FORMING OR REACTING; OR THE		
	RESULTANT PRODUCT OF ANY OF THE	258	.....Specified material contains an ether group
	ABOVE OPERATIONS		
	..At least one solid polymer derived		
	from ethylenic reactants only	259	.....Specified material contains an organic nitrogen compound
	...Polymer mixture of two or more solid		
	polymers derived from	260	.....Organic nitrogen compound contains an azo group, i.e., -N=N-
	ethylenically unsaturated		
	reactants only; or mixtures of	261	.....Specified material contains an organic sulfur compound
	said polymer mixture with a		
	chemical treating agent; or	262	.....Specified material contains a carboxylic acid or derivative
	products or processes of preparing		
	any of the above mixtures	263	.....Specified material contains a peroxy group, i.e., -O-O-
	....Solid polymer derived from reactant		
	containing at least two ethylenic	264	.....Contains nonperoxy compound or inorganic peroxy compound
	groups and is devoid of aryl ring		
	.....At least two polymers derived from	265	.....Aromatic or cycloaliphatic peroxy compound
	reactants containing two or more		
	ethylenic groups and devoid of	266	.....Specified material contains an organic chalcogen compound
	an aryl ring		
237	.....At least one of these polymers is	267	....Including step of preparing a polymer in the presence of a specified material and in the absence of a preformed polymer derived from ethylenic reactant only
	derived from two or more		
	reactants		
238	....Solid polymer derived from		
	(meth)acrylonitrile		
239	....Solid polymer derived from		
	vinyl(idene) chloride	268	.....Specified material contains a transition metal atom
240	....Solid polymer derived from ethylene		
	or propylene	269	.....Transition metal is other than Group IVB, VB, or VIB metal atom
241	....Solid polymer derived from an		
	aromatic hydrocarbon reactant		
242	...Polymer derived from ethylenic	270	.....With nonmetal, nonhydrocarbon compound
	reactants only mixed with		
	ethylenic reactant	271	.....Specified material contains a Group IA atom in elemental form or bonded to hydrogen or carbon
243	....Reactions with ethylenic reactants		
	in two or more diverse phases,	272	.....Contains an atom other than Group IA, C, or H
	e.g., bulk, emulsion, melt,		
	solution, etc.		
244	....Contacting a solid polymer derived	273	.....Specified material contains a compound containing a peroxy group, i.e., -O O-
	from ethylenic reactants only		
	with an ethylenic reactant in the	274	....Ethylenic reactant contains a metal atom
	presence of a specified material		
245	.....Specified material contains	275	....Ethylenic reactant contains an acetylenic group
	transition metal atom		
246	.....In presence of water		
247	.....Contains nontransition metal atom	276	....Ethylenic reactant contains a fluorine atom
248	.....Specified material contains a		
	carbon or hydrogen atom bonded	277	....Ethylenic reactant contains a carbonate group
	directly to a metal atom		
249	.....Metal atom is aluminum	278	....Ethylenic reactant contains a carbamate group
250	.....Metal atom is Group IA metal atom		
	(Li, Na, K, Rb, Cs, Fr)	279	....Ethylenic reactant contains nitrogen heterocycle, e.g., pyridine, diazines, etc.
251	.....Specified material contains a boron		
	atom	280	.....Block copolymer
252	.....Specified material is a		
	carbohydrate or is a solid		
	synthetic polymer not intended		
	to be in the final product		
253	.....Material contains a free alcohol		
	group or is alcoholate thereof		

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	SYNTHETIC RESINS (Class 520, Subclass 1)	303	.....Ester contains an oxygen atom other than as a carboxylic acid ester group
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	304	.....Ester contains at least two carboxylic acid ester groups
	..At least one solid polymer derived from ethylenic reactants only	305	.....Ester is derived from a polyol
	...Polymer derived from ethylenic reactants only mixed with ethylenic reactant	306	.....Ester is derived from an unsaturated alcohol
	....Ethylenic reactant contains nitrogen heterocycle, e.g., pyridine, diazines, etc.	307	.....Ester is derived from an unsaturated carboxylic acid and an unsaturated alcohol
281	....Nitrogen heterocycle contains at least two nitrogen atoms in the same ring	308	.....Ester is derived from an unsaturated carboxylic acid
282	....Imide	309	.....Ester derived from an unsaturated carboxylic acid is reacted in the presence of a solid polymer
283	....Lactam	310	.....Ester reactant derived from an unsaturated carboxylic acid is reacted in the presence of a solid polymer substrate derived from a polyene hydrocarbon
284	....Ethylenic reactant contains a chalcogen heterocycle	311	.....Ester reactant derived from an unsaturated alcohol is reacted in the presence of a solid polymer
285	....Cyclic anhydride	312	....Oxygen atom is part of an ether group
286	....Three-membered ring containing two carbon and one chalcogen atom	313	....Ethylenic reactant contains at least two unsaturated groups and is devoid of an aromatic group
287	....Ethylenic reactant contains a phosphorus atom	314	....Block copolymer derived from reactant containing at least two unsaturated groups and is free of an aromatic group
288	....Ethylenic reactant contains atoms other than C, H, O, N, S, or Cl	315	....Ethylenic reactant reacted in the presence of a solid polymer substrate derived from reactant containing two unsaturated groups and is devoid of an aromatic group
289	....Ethylenic reactant contains a fused- or bridged-ring system	316	.....Ethylenic reactant is an aromatic hydrocarbon
290	....Dicyclopentadiene-containing group	317	....Ethylenic reactant is vinyl(idene) chloride
291	....Ethylenic reactant contains a sulfur atom	318	....Block copolymer derived from vinyl(idene) chloride
292	....Ethylenic reactant contains a chlorine atom and is other than vinyl(idene) chloride	319	....Ethylenic reactant is acyclic hydrocarbon
293	....Ethylenic material contains a nitrogen atom and is other than (meth)acrylonitrile	320	....Acyclic hydrocarbon contains five or more carbon atoms
294	....Block copolymer derived from nitrogen-containing reactant	321	.....Block copolymer derived from acyclic hydrocarbon containing five or more carbon atoms
295	....Nitrogen atom is part of a nitrile group and is other than (meth)acrylonitrile	322	....Acyclic hydrocarbon is propylene
296	....Nitrogen atom is part of a carboxylic acid amide group	323	.....Block copolymer derived from propylene
297	....Ethylenic reactant contains a cycloaliphatic group	324	....Acyclic hydrocarbon is ethylene
298	....Ethylenic reactant contains an oxygen atom		
299	....Block copolymer derived from oxygen-containing reactant		
300	....Oxygen atom is part of a ketone or ketene group		
301	....Oxygen atom is part of a carboxylic acid group		
301.5	.....Unsaturated fatty acid derived from a naturally occurring glyceride, tall oil, or an unsaturated fatty acid derived from tall oil		
302	....Oxygen atom is part of a carboxylic acid ester group		

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

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SYNTHETIC RESINS (Class 520, Subclass 1)			
	.MIXING OF TWO OR MORE SOLID POLYMERS;		methylolacrylamide and the corresponding methacryl materials
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	328.3	....At least one monomer containing two or more ethylenic groups
	..At least one solid polymer derived from ethylenic reactants only	328.4	....Monomer containing two or more nitrogen atoms, or two or more nitrogen containing monomers
326.1	...Chemically after treated solid polymers derived from ethylenically unsaturated monomers only	328.5	....Polymer derived from sulfur monomer
		328.6	....Polymer derived from ketone monomer
		328.7	....Polymer derived from aldehyde monomer
326.2	....Polymer derived from fluorine monomer	328.8	....Polymer derived from alcohol monomer
		328.9	....Polymer derived from ether monomer
326.3	.....Vulcanized or crosslinked in presence of chemical treating agent	329.1	....Polymer derived from acrylonitrile or methacrylonitrile monomer
		329.2	.....Interpolymers
326.4	.....Halogen containing chemical treating agent; or dehalogenated	329.3	.....Contains monomer having two or more ethylenic groups
		329.4	....Polymer derived from acrylamide or methacrylamide monomer
326.5	....Polymer derived from silicon monomer	329.5	....Polymer derived from carboxylic acid or derivative monomer other than: vinyl acetate; or acrylic-or-methacrylic-acid, or derivatives
326.6	....Polymer derived from monomer containing atom other than: C, H, N, O, S, halogen or group IA or IIA carboxylate	329.6	.....Butene dioic acid or derivative monomer
326.7	....Polymer derived from monomer containing nitrogen atom as part of a heterocyclic ring	329.7	....Polymer derived from acrylic or methacrylic acids, acid halides or salt monomers
326.8	.....Oxygen atom in ring or bonded directly to the nuclear carbon of ring monomer	329.8	.....Sulfur or phosphorus containing chemical treating agent
326.9	.....Lactam monomer, e.g., vinyl pyrrolidone, etc.	329.9	.....Nitrogen containing chemical treating agent
327.1	.....6 membered ring containing 5 carbons and 1 nitrogen, monomer, e.g., vinyl pyridine, etc.	330.1	.....Esterified, i.e., preparation of COOR linkage
327.2	....Polymer derived from monomer containing chalcogen as part of heterocyclic ring other than solely as cyclic anhydride of ethylenically unsaturated dicarboxylic acid	330.2	.....Hydrolyzed; neutralized; or metal containing chemical treating agent
		330.3	....Polymer derived from acrylic or methacrylic esters, or vinyl acetate monomer
327.3	.....Three membered chalcogen ring monomer, e.g., oxirane, etc.	330.4	.....Sulfur or phosphorus containing chemical treating agent
327.4	....Polymer derived from carboxylic acid anhydride monomer	330.5	.....Nitrogen containing chemical treating agent
327.5	.....Sulfur containing chemical treating agent	330.6	.....Alcoholized; transesterified; hydrolyzed; or metal containing chemical treating agent; e.g., saponified, etc.
327.6	.....Nitrogen containing chemical treating agent other than unsubstituted ammonium as sole nitrogen	330.7	....Polymer derived from halogen monomer
327.7	.....Esterified, i.e., preparation of COOR linkage	330.8	.....At least one monomer contains two or more ethylenic groups
327.8	.....Hydrolyzed; neutralized; or metal containing chemical treating agent	330.9	.....Vulcanized or crosslinked, in the presence of a chemical treating agent, e.g., cured, etc.
327.9	....Polymer from unsaturated petroleum hydrocarbon fraction as monomer	331.1	.....Nitrogen containing chemical treating agent
328.1	....Polymer derived from acetylenic monomer	331.2	.....Halogen containing chemical treating agent
328.2	....Polymer derived from monomer containing nitrogen other than: unsubstituted ammonium, acrylonitrile, acrylamide,		

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SYNTHETIC RESINS (Class 520, Subclass 1)	333.7	....Polymer derived from acyclic hydrocarbon monomer only
.MIXING OF TWO OR MORE SOLID POLYMERS;		
MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	333.8	.....Air, elemental oxygen, ozone or peroxide chemical treating agent
..At least one solid polymer derived from ethylenic reactants only	333.9	.....Sulfur containing chemical treating agent
...Chemically after treated solid polymers derived from ethylenically unsaturated monomers only	334.1	.....Halogenated polymer
....Polymer derived from halogen monomer	337	...Chemical treating agent contains boron or boron-containing compound other than boron trihalide or nonmetal complex thereof
.....At least one monomer contains two or more ethylenic groups	338	...Chemical treating agent contains elemental hydrogen or an elemental hydrogen-liberating compound, e.g., hydrogenation, etc.
331.3	339	....Treating in the presence of an elemental metal or inorganic metallic compound
.....Nitrogen containing chemical treating agent	340	...Chemical treating agent contains a phosphorus atom
331.4	341	....Contains a sulfur atom
331.5	342	...Chemical treating agent contains a silicon atom
.....Vinyl chloride or vinylidene chloride	343	...Chemical treating agent contains a sulfur atom
331.6	344	....Inorganic sulfur compound contains sulfur atom bonded to at least two oxygen atoms
.....Halogen containing chemical treating agent	345	....With peroxide, ozone, or free oxygen
331.7	346	....With sulfur-free organic compound
....Ethylene-propylene terpolymer, e.g., EPT, EPDM, EPR, etc.	347	.....Sulfur-free organic compound contains heterocyclic nitrogen
331.8	348	....Sulfur-containing heterocyclic compound
.....Sulfur containing chemical treating agent	349	.....Heterocyclic ring contains sulfur and nitrogen atoms
331.9	350	....Mercaptan or mercaptide
....Polymer derived from monomer containing at least two ethylenic groups or diene rubber	351	....Organic compound contains sulfur and nitrogen atoms
332.1	352	.....One or more sulfur atoms of the nitrogen-containing compound are double bonded to carbon
.....Monomer contains non-conjugated diene group or at least one fused or bridged ring or at least one cycloaliphatic structure	353	....Sulfur compound contains sulfur atom bonded to at least two oxygen atoms, e.g., sulfonate, etc.
332.2	354	....Elemental sulfur or inorganic sulfur compound
.....Divinyl benzene	355	...Chemical treating agent contains hydrogen halide, elemental halogen, organic halogen-containing compound, or compound containing only halogen atoms
332.3	356	....Treating in the presence of elemental halogen
.....Halogen containing chemical treating agent	357	....Treating in the presence of a metal or metal-containing compound
332.4	358	....Treating in the presence of water
.....Sulfur containing chemical treating agent	359.1	....Treating in the presence of organic halogen-containing compound
332.5		
....Vulcanized in the presence of a chemical treating agent, e.g., cured, crosslinked, etc.		
332.6		
.....Sulfur containing chemical treating agent		
332.7		
.....Nitrogen containing chemical treating agent		
332.8		
.....Interpolymer with aliphatic hydrocarbon monomer (includes additional diene monomer)		
332.9		
.....Interpolymer with aromatic hydrocarbon		
333.1		
.....Isoprene or diene rubber other than butadiene rubber		
333.2		
....Butadiene homopolymer		
333.3		
....Polymer derived from aromatic hydrocarbon monomer, e.g., styrene, etc.		
333.4		
.....Halogenated polymer		
333.5		
.....Sulfur containing chemical treating agent		
333.6		
.....Nitrogen containing chemical treating agent		



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	SYNTHETIC RESINS (Class 520, Subclass 1)	374	...Chemical treating agent is a nitrogen-containing compound
	.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	375	...Contains nitrogen atom in a heterocyclic ring
	..At least one solid polymer derived from ethylenic reactants only	376	...Nitrogen-containing compound has at least one nitrogen-to-nitrogen bond
	...Chemical treating agent contains hydrogen halide, elemental halogen, organic halogen-containing compound, or compound containing only halogen atoms	377	...Nitrogen-containing compound contains at least one nitrile or isonitrile group; or a nitrogen-to-oxygen bond which is other than as an amine or ammonium salt
	....Treating in the presence of organic halogen-containing compound	378	...Ammonia, ammonium hydroxide, or salts thereof
359.2	.....Organic halogen-containing compound contains a hetero ring	379	...Organic amine
359.3	.....Organic halogen-containing compound contains oxygen	380	....Amine contains a hydroxyl group
359.4	.....Organic halogen-containing compound contains a (C=O)O group or an aromatic group	381	....Three or more amine groups
359.5	.....Organic halogen-containing compound contains only carbon, hydrogen, and halogen	382	....Two amine groups
359.6	.....Organic halogen-containing compound contains an aromatic group	383	...Chemical treating agent contains elemental oxygen or oxygen-containing compound
360	...Chemical treating agent contains elemental metal or metal-containing compound	384	...Oxygen compound contains at least one alcohol group
361	....Two or more diverse elemental metals or compounds thereof; or same metal in two or more distinct compounds; or diverse metals in same compound	385	...Oxygen compound contains an ether group
362	.....Elemental metal or inorganic compound thereof only	386	...Oxygen compound is a carboxylic acid, ester, anhydride, or lactone thereof
363	.....Aluminum or Group IIB (Zn, Cd, Hg) metal or compound thereof	387	...Oxygen compound contains a peroxy group (-O-O-)
364	.....Organometallic compound and elemental metal or inorganic compound thereof	388	...Specified oxygen-containing compound is air, elemental oxygen, or ozone
365	.....Aluminum metal or compound thereof	389	..Solid polymer derived from reactant containing atoms other than C, H, N, Si, P, chalcogen, halogen, or an alkali or alkaline earth metal in salt form
366	....Contains Group IA (Li, Na, K, Rb, Cs, Fr) or Group IIA (Be, Mg, Ca, Sr, Ba, Ra) elemental metal or compound thereof	390	..Solid polymer derived solely from phenolic reactants wherein none of the reactants contains a plurality of methylol groups or derivatives thereof
367	.....Elemental metal or inorganic metal compound	391	...Mixed with ethylenically unsaturated reactant or polymer derived therefrom
368	.....Metal oxide	392	....Unsaturated aromatic reactant or polymer thereof
369	.....Metal hydroxide	393	...Mixed with silicon-containing reactant or polymer derived therefrom
370	....Contains Group IB (Cu, Ag, Au), IIB (Zn, Cd, Hg), IIIA (Al, Ga, In, Tl), IV (Ti, Zr, Hf, Ge, Sn, Pb), and VIII (Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt) elemental metal or compound thereof	394	...Mixed with -O-C(=O)-O-, hal-C(=O)-O-, or hal-C(=O)-hal containing reactant or polymer derived therefrom
371	.....Elemental metal or inorganic compound thereof	395	...Mixed with -N=C=X-containing reactant or polymer therefrom (X is chalcogen)
372	.....Metal oxide		
373	.....Group IIB metal (Zn, Cd, Hg) oxide		

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SYNTHETIC RESINS (Class 520, Subclass 1)			
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS		anhydride, and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof
	..Solid polymer derived solely from phenolic reactants wherein none of the reactants contains a plurality of methylol groups or derivatives thereof	411	...Mixed with carboxylic acid or derivative reactant or polymer therefrom
	396 ...Mixed with 1,2-epoxy containing reactant or polymer therefrom, or wherein polymer contains at least one 1,2-epoxy group	412	...Mixed with unsaturated reactant or polymer therefrom
	397 ...Mixed with carboxylic acid or derivative reactant or polymer derived therefrom	413	...Mixed with -O-C(=O)- or hal-C(=O)- reactant or polymer derived therefrom
	398 ..Solid polymer derived from aldehyde, aldehyde derivative, or liquid polymer thereof as sole reactant and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof	414	...Mixed with aldehyde or aldehyde derivative or polymer derived therefrom
	399 ...Mixed with -N=C-X-containing reactant or polymer derived therefrom (X is a chalcogen)	415	...Solid polymer derived from carboxylic acid cyclic ester, e.g., lactone, etc.
	400 ...Mixed with carboxylic acid or derivative reactant or polymer derived therefrom	416	..Solid polymer derived from hydrocarbon or halogenated hydrocarbon as sole reactant or mixture thereof
	401 ...Mixed with ethylenically unsaturated reactant or polymer derived therefrom	417	..Solid polymer derived from heterocyclic materials as sole reactants wherein each of the heterocyclic materials contains a hetero ring other than solely as a lactam, 1,2-epoxy or carboxylic acid anhydride and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof
	402 ...Solid polymer derived from aldehyde or derivative containing halogen	418	..Solid polymer derived from at least one carboxylic acid or derivative
	403 ..Solid polymer is derived from 1,2-epoxy compound containing only one 1,2 epoxy group as sole reactant and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof	419	...Solid polymer derived from at least one lactam; from an amino carboxylic acid or derivative; or from a polycarboxylic acid or derivative
	404 ...Mixed with ethylenically unsaturated reactant or polymer therefrom	420	....Solid polymer derived from an amino carboxylic acid or derivative; from a polyamine and a polycarboxylic acid or derivative; from at least one lactam; or from a polyamine salt of a polycarboxylic acid
	405 ...Mixed with aldehyde or aldehyde derivative reactant or polymer therefrom	420.5	.....Solid polymer derived from a polycarboxylic acid which is a dimer or trimer of an aliphatic acyclic monocarboxylic acid having at least ten carbon atoms or adducts of unsaturated aliphatic acyclic monocarboxylic acids, having ten carbon atoms with an alpha, beta ethylenically unsaturated carboxylic acid or derivative
	406 ....Contains amine-, N-C(=X)-, or N-S(=O)- containing reactant (X is chalcogen)	421	.....Solid polymer derived from reactant containing ethylenic unsaturation
	407 ...Mixed with 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom	422	.....Solid polymer derived from imide reactant
	408 ....Mixed with carboxylic acid or derivative or polymer derived therefrom	423	.....Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
	409 ...Solid polymer derived only from 1,2-epoxy reactants containing only C, H, and O		
	410 ..Solid polymer derived from hetero-O-cyclic compounds as sole reactants wherein at least one reactant contains a hetero-O-ring other than solely as a 1,2-epoxy or		

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

SEPTEMBER 2007

SYNTHETIC RESINS (Class 520, Subclass 1)		higher ester of a polycarboxylic acid as sole reactant
.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	
	..Solid polymer derived from at least one carboxylic acid or derivative	
	...Solid polymer derived from at least one lactam; from an amino carboxylic acid or derivative; or from a polycarboxylic acid or derivative	
	....Solid polymer derived from an amino carboxylic acid or derivative; from a polyamine and a polycarboxylic acid or derivative; from at least one lactam; or from a polyamine salt of a polycarboxylic acid	
424	.....Mixed with $-N=C=X$ reactant or polymer derived therefrom (X is chalcogen)	* 440.01
425	.....Mixed with polycarboxylic acid or derivative and polyhydroxy reactant or polymer therefrom	* 440.02
426	.....Mixed with ethylenically unsaturated reactant or polymer therefrom	* 440.03
427	.....Mixed with aldehyde or aldehyde derivative reactant or polymer therefrom	* 440.04
428	.....Contains amine-, $N-C(=X)-$ , or $N-S(=O)-$ containing reactant or polymer thereof (X is chalcogen)	* 440.05
429	.....Contains phenolic reactant or polymer thereof	* 440.06
430	.....Mixed with a reactant containing a single 1,2-epoxy group per mole or polymer derived therefrom	* 440.07
431	.....Mixed with silicon containing reactant or polymer derived from	* 440.071
432	.....Mixed with additional polycarboxylic acid and a polyamine; amino carboxylic acid or derivative; polyamine salt of a polycarboxylic acid; lactam; or polymer derived therefrom	* 440.072
433	.....Mixed with $O-C(=O)-O-$ , $hal-C(=O)-$ , or $hal-C(=O)-hal$ reactant or polymer derived therefrom	* 440.08
434	.....Solid polymer derived from hydroxyl group-containing reactant	* 440.09
435	.....Solid polymer derived from compound containing more than two amine groups	* 440.11
436	.....Solid polymer derived from compound containing more than two carboxylic acid groups or derivatives thereof	* 440.12
437	.....Solid polymer derived from polyhydroxy reactant and polycarboxylic acid or derivative reactant; or derived from di- or	
		.....Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
		.....Mixed with $O-C(=O)-O-$ , $hal-C(=O)-O-$ , or $hal-C(=O)-hal$ containing reactant or polymer derived therefrom; or wherein solid polymer is derived from a $hal-C(=O)-hal$ , $O-C(=O)-O-$ , or $hal-C(=O)-O-$ , a polycarboxylic acid or derivative and a polyhydroxy reactant
		.....Mixed with $-N=C=X$ reactant or polymer derived therefrom (X is chalcogen); or wherein solid polymer is derived from a $-N=C=X$ reactant and also a polycarboxylic acid or derivative and a polyhydroxy reactant
		.....Blocked isocyanate reactant or polymer derived therefrom
		.....Silicon, phosphorus, or halogen containing reactant or polymer derived therefrom
		.....Heterocyclic containing reactant or polymer derived therefrom other than as an anhydride of a polycarboxylic acid
		.....Sulfur, selenium, or tellurium containing reactant other than X in a $N=C=X$ group or polymer derived therefrom
		.....Nitrogen containing reactant other than N in a $N=C=X$ group or polymer thereof
		.....Reactant contains ethylenic unsaturation
		..... $N=C=X$ reactant or polymer derived therefrom contains ethylenic unsaturation
		.....Polyhydroxy reactant contains ethylenic unsaturation
		.....Fused or bridged ring system containing, or non-aryl carbocyclic ring containing reactant
		.....Reactant contains an aryl group bonded to an oxygen atom
		..... $N=C=X$ reactant or polymer derived therefrom contains plural ether linkages
		..... $N=C=X$ reactant or polymer derived therefrom contains at least one aryl group

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

SEPTEMBER 2007

	SYNTHETIC RESINS (Class 520, Subclass 1)	444.5	.....Solid polymer derived from or system contains a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or fatty acid derived from tall oil
	.MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	445	....Mixed with ethylenically unsaturated reactant or polymer therefrom
	..Solid polymer derived from at least one carboxylic acid or derivative	446	.....Mixed with silicon-containing reactant or polymer derived therefrom
	...Solid polymer derived from at least one lactam; from an amino carboxylic acid or derivative; or from a polycarboxylic acid or derivative	447	.....Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound derived from reactant containing ethylenic unsaturation
	....Solid polymer derived from polyhydroxy reactant and polycarboxylic acid or derivative reactant; or derived from di- or higher ester of a polycarboxylic acid as sole reactant	448	.....Solid polymer derived from polycarboxylic acid or derivative and polyhydroxy compound is derived from two or more polycarboxylic acids or derivatives
	.....Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen); or wherein solid polymer is derived from a -N=C=X reactant and also a polycarboxylic acid or derivative and a polyhydroxy reactant	449	....Mixed with 1,2-epoxy reactant or polymer derived therefrom
* 440.13	.....Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound is derived from a hydroxy containing carboxylic acid or derivative reactant	451	...Solid polymer derived from carboxylic acid or derivative derived from ethylenically unsaturated reactant
		452	..Solid polymer derived from -N=C=X reactant (X is chalcogen)
* 440.14	.....Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound wherein said polycarboxylic acid or derivative contains three or more carboxylic acid or derivative groups	453	...Solid polymer derived from -N=C=X reactant and polyhydroxy reactant
		454	....Mixed with carboxylic acid or derivative reactant or polymer derived therefrom; or with heterocyclic reactant containing more than one heterocyclic ring; or polymer therefrom
* 440.15	.....Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound wherein said polyhydroxy reactant contains three or more hydroxy groups or contains at least one ether group	455	....Mixed with ethylenically unsaturated reactant or polymer therefrom
		456	....Mixed with aldehyde or aldehyde derivative reactant or polymer therefrom
		457	....Mixed with -N=C=X reactant or polymer therefrom
* 440.16	.....Solid polymer derived from two or more polycarboxylic acid or derivatives and a single polyhydroxy compound	458	.....Contains polyhydroxy reactant; or additional polymer derived from -N=C=X and polyhydroxy reactant
441	.....Mixed with aldehyde or aldehyde derivative reactant or polymer derived therefrom	459	....Solid polymer derived from -N=C=X reactant and polyhydroxy reactant also derived from polyamine reactant
442	.....Contains phenolic reactant or polymer thereof	460	....Solid polymer derived from -N=C=X reactant and polyhydroxy reactant derived from polyhydroxy reactant containing an ether group
443	.....Contains an amine-, N-C(=X)-, or N-S(=O)-containing reactant or polymer thereof (X is chalcogen)	461	..Solid polymer derived from O-C(=O)-O- or hal-C(=O)-containing reactant
444	.....Mixed with polycarboxylic acid or derivative and polyhydroxy reactant or polymer thereof	462	...Solid polymer derived from O-C(=O)-O- or hal-C(=O)-containing reactant and polyhydroxy reactant

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

SEPTEMBER 2007

	SYNTHETIC RESINS (Class 520, Subclass 1)	474	..Solid polymer derived from silicon-containing reactant
	.MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	475	...Mixed with aluminum- or heavy metal-containing reactant or polymer therefrom
	..Solid polymer derived from O-C(=O)-O- or hal-C(=O)-containing reactant	476	...Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
	...Solid polymer derived from O-C(=O)-O- or hal-C(=O)-containing reactant and polyhydroxy reactant	477	...Mixed with silicon-containing reactant or polymer therefrom
463	....Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom	478	...Wherein one of said silicon materials contains Si-H bond
464	....Mixed with silicon-containing reactant or polymer derived therefrom	479	...Mixed with ethylenically unsaturated reactant or polymer derived therefrom
465	....Mixed with aldehyde or aldehyde derivative reactant or reaction product therefrom	480	..Solid polymer or specified intermediate condensation product derived from at least one phenolic reactant and at least one aldehyde or aldehyde-type reactant or polymer therefrom
466	....Mixed with polycarboxylic acid or derivative and polyhydroxy reactants or polymer thereof; or, di- or higher ester of polycarboxylic acid as sole reactant or polymer therefrom	481	...Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
467	....Mixed with nitrogen-containing reactant or polymer therefrom	482	....Phenolic-aldehyde or phenolic-aldehyde-type reaction product modified with 1,2-monoepoxide prior to mixing with reactant containing more than one 1,2 epoxy group per mole or polymer derived therefrom
468	....Mixed with ethylenically unsaturated reactant or polymer therefrom	483	.....Contains sulfur-containing reactant or polymer therefrom
469	....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- and polyhydroxy reactant derived from at least two polyhydroxy reactants	484	.....Contains nitrogen reactant or polymer therefrom
470	....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- reactant and polyhydroxy reactant contains an atom other than C, H, O, or halogen bonded to a C(=O) group	485	....With specified material
471	..Solid polymer derived from ketone reactant and wherein none of the reactants forming the solid polymer contains an aldehyde group or is an aldehyde-type reactant or polymer derived therefrom	486	.....Specified material contains nitrogen
472	..Solid polymer derived from aldehyde or aldehyde-type reactant and wherein none of the reactants forming the solid polymer contains a phenol-, amine-, -N=C=X, -N-S(=O)- or ketone group or a condensate thereof except when an amine group appears in hexamethylenetetramine or a derivative thereof (X is chalcogen)	487	....With silicon-containing reactant or polymer derived therefrom
473	...Solid polymer derived from aldehyde or aldehyde-type reactant containing atoms other than C, H, or O and wherein when hexamethylenetetramine or derivative is a reactant, there is additionally present a reactant containing atoms other than C, H, or O	488	....With carboxylic acid or derivative reactant or polymer derived therefrom
		489	....With additional aldehyde or aldehyde-type reactant or polymer therefrom which is distinct from aldehyde or aldehyde-type reactant used in forming solid polymer or SICP; or with nitrogen-containing reactant
		490	....Wherein phenolic-aldehyde or phenolic-aldehyde-type solid polymer or SICP contains nitrogen or ethylenic unsaturation
		491	...Mixed with additional aldehyde or aldehyde-type reactants which are part of a SPFI system or polymer thereof

	SYNTHETIC RESINS (Class 520, Subclass 1)	503	...Mixed with aldehyde or aldehyde-type chemical treating agent
	. MIXING OF TWO OR MORE SOLID POLYMERS;		
	MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS	504	...Mixed with nitrogen-containing chemical treating agent
	..Solid polymer or specified intermediate condensation product derived from at least one phenolic reactant and at least one aldehyde or aldehyde-type reactant or polymer therefrom	505	...Mixed with sulfur-containing chemical treating agent
	...Mixed with additional aldehyde or aldehyde-type reactants which are part of a SPFI system or polymer thereof	506	...Mixed with a boron- or polyvalent metal-containing chemical treating agent
	492 ....Additional material is a hydrocarbon-aldehyde- or hydrocarbon-aldehyde-type polymer, condensate, or reactants therefrom	507	...Mixed with an 1,2-epoxy-containing chemical treating agent
	493 ....Additional material is ketone-aldehyde- or ketone-aldehyde-type polymer, condensate, or reactants thereof	508	...Mixed with carboxylic acid- or derivative-containing chemical treating agent
	494 .....Contains nitrogen-containing reactant or polymer therefrom	509	..Solid polymer or SICP derived from at least one amine-, N-C(=X)- or N-S(=O) containing reactant and at least one aldehyde or aldehyde-type reactant (X is chalcogen)
	495 ....Additional material is amine-, N-C(=X)-, or N-S(=O)-containing reactant- aldehyde or -aldehyde derivative polymer, condensate, or reactants therefrom (X is chalcogen)	510	...Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
	496 .....Contains 1,2-epoxy-containing reactant or polymer derived therefrom	511	...With specified material
	497 .....Heterocyclic nitrogen reactant or polymer therefrom, e.g., melamine, etc.	512	....Amine-, N-C(=X)- or N-S(=O)-containing reactant (X is chalcogen) aldehyde or a -aldehyde-type condensation product or polymer thereof contains atoms other than C, H, O, N, or S
	498 .....-N-C(=X)-N-containing reactant or polymer, e.g., urea, etc. (X is chalcogen)	513	...With sulfur-containing reactant or polymer therefrom
	499 .....Contains sulfur reactant or polymer therefrom	514	...With carboxylic acid or derivative reactant or polymer derived therefrom
	500 ....Wherein the phenolic-aldehyde- or phenolic-aldehyde-type solid polymer or SICP is derived from a reactant or polymer containing an atom other than C, H, or O	515	...Mixed with additional aldehyde or aldehyde-type solid polymer; or SICP; or aldehyde or aldehyde-type reactant
	501 ....Additional phenol-aldehyde- or -aldehyde-type polymer, condensation product or reactants therefrom	516	....Contains a phenolic reactant or polymer thereof
	501.5 ...Mixed with reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil; or the reaction product of any of the above with a polycarboxylic acid or ester forming derivative and a polyhydroxy compound	517	...Amine-, N-C(=X)- or N-S(=O)-containing reactant-aldehyde or -aldehyde-type polymer or condensation product contains atoms other than C, H, O, N, or S (X is chalcogen)
	502 ...Mixed with unsaturated reactant or polymer derived therefrom	517.5	...Mixed with a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil; or the reaction product of any of the above with a polycarboxylic acid or ester forming derivative and a polyhydroxy compound
		518	...Mixed with unsaturated reactant or polymer derived therefrom
		519	...Mixed with carboxylic acid or derivative reactant or polymer therefrom
		520	....Contains -N=C=X reactant or polymer therefrom (X is chalcogen)

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	SYNTHETIC RESINS (Class 520, Subclass 1)	903	INTERPENETRATING NETWORK
	.MIXING OF TWO OR MORE SOLID POLYMERS;	904	ACTIVATION OF PREFORMED POLYMER IN
	MIXING OF SOLID POLYMER OR SICP WITH		ABSENCE OR MONOMER, FOR SUBSEQUENT
	SICP OR SPFI; MIXING OF SICP WITH AN		POLYMERIZATION THEREON (E.G., TRAPPED
	ETHYLENIC AGENT; MIXING OF SOLID	905	RADICALS)
	POLYMER WITH A CHEMICAL TREATING OR	906	POLYPHENYLENE OXIDE
	ETHYLENIC AGENT; OR PROCESSES OF	907	POLYSULFONE
	FORMING OR REACTING; OR THE	908	POLYCARBODIIMIDE
	RESULTANT PRODUCT OF ANY OF THE	909	POLYMER CONTAINING A HYDANTOIN GROUP
521	..Solid polymer or SICP derived from at		POLYMER HAVING A HETEROCYCLIC RING WITH
	least one ketone reactant and at		AT LEAST THREE DIFFERENT ELEMENTS
	least one aldehyde or aldehyde		WITHIN THE RING
	derivative reactant	910	POLYMER FROM ETHYLENIC MONOMERS ONLY,
522	...Mixed with reactant containing more		HAVING TERMINAL UNSATURATION
	than one 1,2-epoxy group per mole	911	POLYMER FROM ETHYLENIC MONOMERS ONLY,
	or polymer derived therefrom		HAVING TERMINAL FUNCTIONAL GROUP
523	..Solid polymer contains more than one		OTHER THAN UNSATURATION
	1,2-epoxy group or is derived from	912	POLYMER FROM NONETHYLENIC MONOMERS ONLY,
	reactant containing at least one		HAVING PENDANT UNSATURATED GROUP
	1,2-epoxy group	913	POLYMER FROM MONOMERS ONLY HAVING
524	...Mixed with a reactant containing more		PENDANT GLYCIDYL GROUP
	than one 1,2-epoxy group per mole	914	POLYMER FROM CONJUGATED DIENE
	or polymer derived therefrom		HYDROCARBON OR HALOHYDROCARBONS
525	...Wherein at least one of said		HAVING MORE THAN 50 PER CENT
	1,2-epoxy reactants or polymer		1,2-MICROSTRUCTURE
	derived therefrom contains atoms	915	POLYMER FROM MONOETHYLENIC CYCLIC
	other than C, H, or O		HYDROCARBON
526	....Contains nitrogen atom	916	POLYMER FROM ETHYLENIC MONOMERS ONLY,
527	....Contains halogen atom		HAVING CATIONIC GROUP
528	...Mixed with -N=C=X-containing reactant	917	POLYMER FROM AT LEAST ONE NONETHYLENIC
	or polymer therefrom		MONOMER HAVING CATIONIC GROUP
529	...Mixed with unsaturated reactant or	918	POLYMER PREPARED BY CATIONIC
	polymer derived therefrom		POLYMERIZATION
530	...Wherein unsaturated reactant is a	919	IONOMER RESINS (CARBOXYLATE
	carboxylic acid or derivative or		SALT-CONTAINING COPOLYMERS)
	polymer derived therefrom	920	POLYURETHANE HAVING TERMINAL ETHYLENIC
531	....Wherein unsaturated reactant		UNSATURATION
	contains only one free carboxyl	921	POLYESTER HAVING TERMINAL ETHYLENIC
	group		UNSATURATION OTHER THAN
532	....Contains polyol reactant or polymer		POLYESTERURETHANES
	derived therefrom	922	POLYEPOXIDE POLYMER HAVING BEEN REACTED
533	...Mixed with carboxylic acid or		TO YIELD TERMINAL ETHYLENIC
	derivative reactant or polymer		UNSATURATION
	therefrom	923	AMINOPLAST HAVING TERMINAL ETHYLENIC
534	..Solid polymer derived from phenolic		UNSATURATION
	reactant	924	PHENOPLAST HAVING TERMINAL ETHYLENIC
535	..Solid polymer derived from		UNSATURATION
	sulfur-containing reactant	925	POLYMER FROM AT LEAST ONE NONETHYLENIC
536	...Solid polymer derived from sulfur		MONOMER HAVING TERMINAL ETHYLENIC
	dioxide and ethylenically		UNSATURATION OTHER THAN
	unsaturated reactant		POLYURETHANES, POLYESTERS,
537	...Solid polymer derived from alkali		POLYEPOXIDES, AMINOPLASTS, AND
	metal sulfide and halogenated		PHENOPLASTS
	aromatic reactant, e.g.,	926	POLYAMIDE CONTAINING A PLURALITY OF
	polyarylene sulfide, etc.		OXYALKYLENE GROUPS
538	..Solid polymer derived from	927	POLYAMIDE ADMIXED WITH
	phosphorus-containing reactant		OXYALKYLENE-CONTAINING POLYMER
539	..Solid polymer derived from at least		
	one unsaturated reactant and at		
	least one saturated reactant		
540	..Solid polymer derived from		
	nitrogen-containing reactant		
	*****		
	CROSS-REFERENCE ART COLLECTIONS		
	*****		
901	RADIAL BLOCK		
902	CORE-SHELL		

# Title Change  
\* Newly Established Subclass

@ Indent Change  
& Position Change

- 928 POLYIMIDE OR POLYAMIDE-ACID FORMED BY  
CONDENSATION OF A POLYAMINE WITH A  
POLYCARBOXYLIC ACID HAVING AT LEAST  
THREE CARBOXYL GROUPS OR DERIVATIVES  
THEREOF
- 929 POLYIMIDE FORMED BY ADDITION OF  
POLYAMINE TO AN UNSATURATED BIS-IMIDE
- 930 REACTION PRODUCT OF A POLYHYDRIC PHENOL  
AND EPICHLOROHYDRIN OR DIEPOXIDE,  
HAVING A MOLECULAR WEIGHT OF OVER  
5,000 (E.G., PHENOXY RESINS)
- 931 BLEND OF STATED INCOMPATIBILITY
- 932 BLEND OF MATCHED OPTICAL PROPERTIES
- 933 BLEND OF LIMITED GAS PERMEABILITY
- 934 POWDERED COATING COMPOSITION
- 935 MATRIX ADMIXED WITH SYNTHETIC FIBER
- 936 ENCAPSULATED CHEMICAL AGENT
- 937 UTILITY AS BODY CONTACT (IMPLANT,  
CONTACT LENS, I.U.D., ETC.)
- 938 POLYMER DEGRADATION
- 939 MULTIPACKAGE SYSTEM
- 940 HYDROGENATION OF A POLYMER
- 941 POLYMER MIXTURE CONTAINING BLOCK  
COPOLYMER IS MIXED OR REACTED WITH  
CHEMICAL TREATING AGENT
- 942 POLYMER DERIVED FROM NITRILE, CONJUGATED  
DIENE AND AROMATIC CO-MONOMERS  
\*\*\*\*\*  
FOREIGN ART COLLECTION  
\*\*\*\*\*
- FOR 000 CLASS-RELATED FOREIGN DOCUMENTS



CLASSIFICATION ORDER 1866

B-1

SEPTEMBER 4, 2007

PROJECT C-7029

SOURCE CLASSIFICATION(S) OF PATENTS  
IN NEWLY ESTABLISHED SUBCLASSES REPORT

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<u>New Classification</u>	<u>Number Of ORs</u>	<u>Source Classification</u>	<u>Number Of ORs</u>
156/308.4	1	525/440	248
156/329	1	525/440	248
156/331.4	1	525/440	248
424/49	1	525/440	248
427/322	1	525/440	248
428/300.7	1	525/440	248
428/395	5	525/440	248
428/423.1	1	525/440	248
428/431	1	525/440	248
428/520	1	525/440	248
435/123	1	525/440	248
473/378	2	525/440	248
523/102	1	525/440	248
523/161	1	525/440	248
524/109	1	525/440	248
524/308	1	525/440	248
525/124	2	525/440	248
525/127	13	525/440	248

CLASSIFICATION ORDER 1866

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SOURCE CLASSIFICATION(S) OF PATENTS  
IN NEWLY ESTABLISHED SUBCLASSES REPORT

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<u>New Classification</u>	<u>Number Of ORs</u>	<u>Source Classification</u>	<u>Number Of ORs</u>
525/399	1	525/440	248
525/437	1	525/440	248
525/438	1	525/440	248
525/440.01	6	525/440	248
525/440.02	43	525/440	248
525/440.03	18	525/440	248
525/440.04	26	525/440	248
525/440.05	14	525/440	248
525/440.06	28	525/440	248
525/440.07	16	525/440	248
525/440.072	10	525/440	248
525/440.08	18	525/440	248
525/440.09	2	525/440	248
525/440.11	1	525/440	248
525/440.12	18	525/440	248
525/440.13	2	525/440	248
525/440.15	6	525/440	248
525/540	1	525/440	248

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SEPTEMBER 4, 2007

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
FROM ABOLISHED SUBCLASSES REPORT

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<u>Source</u> <u>Classification</u>	<u>Number</u> <u>Of ORs</u>	<u>New</u> <u>Classification</u>	<u>Number</u> <u>Of ORs</u>
525/440	248	156/308.4	1
		156/329	1
		156/331.4	1
		424/49	1
		427/322	1
		428/300.7	1
		428/395	5
		428/423.1	1
		428/431	1
		428/520	1
		435/123	1
		473/378	2
		523/102	1
		523/161	1
		524/109	1
		524/308	1
		525/124	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
FROM ABOLISHED SUBCLASSES REPORT

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<u>Source</u> <u>Classification</u>	<u>Number</u> <u>Of ORs</u>	<u>New</u> <u>Classification</u>	<u>Number</u> <u>Of ORs</u>
		525/127	13
		525/399	1
		525/437	1
		525/438	1
		525/440.01	6
		525/440.02	43
		525/440.03	18
		525/440.04	26
		525/440.05	14
		525/440.06	28
		525/440.07	16
		525/440.072	10
		525/440.08	18
		525/440.09	2
		525/440.11	1
		525/440.12	18
		525/440.13	2
		525/440.15	6
		525/540	1

SEPTEMBER 4, 2007

PROJECT C-7029

C. CHANGES TO THE U.S. – I.P.C. CONCORDANCE

<u>Class</u>	<u>U.S.</u>	<u>Subclass</u>	<u>I.P.C.</u>	<u>Notation</u>
525		440.01-440.16	C08F	20/00
			C08G	18/00
			C08G	63/00
			C08G	73/00

## D. CHANGES TO THE DEFINITIONS (Project No. C-7029)

## CLASS 525 - SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES

Definitions AbolishedSubclasses

440

Definitions Modified

Subclass 28: After the subclass definition, in (1) Note:

Delete:

See subclass 395 for a discussion of terms.

After the subclass definition, in (2) Note:

Delete:

In those instances wherein the solid polyester is reacted with the isocyanate prior to mixing with the unsaturated reactant, see this class, subclass 440.

After the (2) Note:

Insert:

SEE OR SEARCH THIS CLASS, SUBCLASS:

395, for a discussion of the term -N C=X reactant, which includes blocked or masked isocyanates.

440.01, for those instances wherein a solid polyester is reacted with an isocyanate prior to mixing with an unsaturated reactant.

## D. CHANGES TO THE DEFINITIONS (Project No. C-7029)

Definitions Established**440.01 Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen); or wherein solid polymer is derived from an -N=C=X reactant and also a polycarboxylic acid or derivative and a polyhydroxy reactant:**

This subclass is indented under subclass 437. Subject matter wherein the solid polymer derived from polycarboxylic acid or derivative reactant and polyhydroxy reactant, or from a di- or higher ester of a polycarboxylic acid as sole reactant, is mixed with an -N=C=X or blocked -N=C=X reactant or polymer derived therefrom; or wherein the solid polymer is derived from a polycarboxylic acid or derivative reactant, a polyhydroxy reactant, and an -N=C=X or blocked -N=C=X reactant (X is chalcogen).

- (1) Note. This subclass provides for a solid polymer derived from at least one polyol and at least one polycarboxylic acid mixed with an -N=C=X reactant, as well as solid polymers derived from at least one polyol, polycarboxylic acid and a compound containing -N=C=X groups mixed with a chemical treating agent.

**440.02 Blocked isocyanate reactant or polymer derived therefrom:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or reacted with a group convertible to an -N=C=X group, or an -N=C=X group previously reacted with a blocking group.

- (1) Note. Blocking an -N=C=X (masked, hidden, etc) is utilized to render the -N=C=X group inert by conversion to an inactive group. The process of reactivation usually merely involves merely heating the blocked reactant to a -N=C=X reactant. The usual mode of rendering is to convert it to the form of a NO- group. Examples of blocking groups include, but are not limited to uretidiones, carbamates, carbodiimides, etc.

**440.03 Silicon, phosphorus, or halogen containing reactant or polymer derived therefrom:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a silicon, phosphorus, or halogen containing reactant.

**440.04 Heterocyclic containing reactant or polymer derived therefrom other than as an anhydride of a polycarboxylic acid:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a heterocyclic containing reactant, and wherein the heterocyclic reactant is other than as an anhydride of a polycarboxylic acid.

**440.05 Sulfur, selenium, or tellurium containing reactant other than X in an -N=C=X group or polymer derived therefrom, or in an -N-(C=X)-X- group:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a sulfur, selenium, or tellurium containing reactant and wherein X is other than X in an -N=C=X group or polymer derived therefrom, or wherein the X atom is other than in an -N-(C=X)-X group.

## D. CHANGES TO THE DEFINITIONS (Project No. C-7029)

**440.06 Nitrogen containing reactant other than N in an -N=C=X group or polymer thereof, or in a N-(C=X)-X- group:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a nitrogen containing reactant other than N in an -N=C=X group or polymer thereof, or wherein the nitrogen atom is in other than an -N-(C=X)-X group.

**440.07 Reactant contains ethylenic unsaturation:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a reactant containing at least one ethylenic group.

**440.071 N=C=X reactant or polymer derived therefrom contains ethylenic unsaturation:**

This subclass is indented under subclass 440.07. Subject matter wherein the N=C=X reactant contains at least contains at least one ethylenic group.

**440.072 Polyhydroxy reactant contains ethylenic unsaturation:**

This subclass is indented under subclass 440.07. Subject matter wherein the polyhydroxy reactant contains at least one ethylenic group.

**440.08 Fused or bridged ring system containing, or non-aryl carbocyclic ring containing reactant:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with a fused- or bridged-ring system containing reactant, or non-aryl carboxylic ring containing reactant.

SEE OR SEARCH THIS CLASS:

520, Synthetic Resins or Natural Rubbers, the Glossary, for a definition of the term "fused or bridged ring system."

**440.09 Reactant contains an aryl group directly bonded to an oxygen atom:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from or has been reacted with at least one reactant containing an aryl group directly bonded to an oxygen atom.

**440.11 N=C=X reactant or polymer derived therefrom contains plural ether linkages:**

This subclass is indented under subclass 440.01. Subject matter wherein the -N=C=X reactant or polymer derived therefrom contains plural ether linkages.

**440.12 N=C=X reactant or polymer derived therefrom contains at least one aryl group:**

This subclass is indented under subclass 440.01. Subject matter wherein the -N=C=X reactant or polymer derived therefrom contains at least one aryl group.

**440.13 Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound is derived from a hydroxy containing carboxylic acid or derivative reactant:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from a single reactant which contains at least one hydroxyl group and at least one carboxylic acid group or derivative.



## D. CHANGES TO THE DEFINITIONS (Project No. C-7029)

**440.14 Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound wherein said polycarboxylic acid or derivative contains three or more carboxylic acid or derivative groups:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from a reactant which contains three or more carboxylic acid or derivative groups.

**440.15 Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound wherein said polyhydroxy reactant contains three or more hydroxy groups or contains at least one ether group:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from a reactant containing three or more hydroxyl or derivative groups, or wherein the solid polymer is derived from at least one reactant containing at least one ether group.

**440.16 Solid polymer derived from two or more polycarboxylic acid or derivatives and a single polyhydroxy compound:**

This subclass is indented under subclass 440.01. Subject matter wherein the solid polymer is derived from two or more polycarboxylic acids or derivative reactants and a single polyhydroxy compound.