

400	MEASURING, TESTING, OR INSPECTING DYE PROCESS	439	.Logwood
401	USING ENZYMES, DYE PROCESS, COMPOSITION, OR PRODUCT OF DYEING	440	DYE RECOVERY PROCESS, OTHER THAN NOMINAL RECOVERY
402	WOOD DYEING PROCESS	441	PROCESS OF COLOR RENOVATING A DYED PRODUCT
403	FUGITIVE DYE COMPOSITION, PROCESS OR PRODUCT	442	COLOR PROTECTING PROCESS FOR DYED PRODUCT
404	DYEING INVOLVING ANIMAL-DERIVED NATURAL FIBER MATERIAL (OTHER THAN SOLELY WOOL OR SILK), E.G., LEATHER, FUR, HAIR, FEATHERS, ETC., COMPOSITION, PROCESS, OR PRODUCT	443	WEIGHTING PROCESS (LOADING SILK WITH METAL SALTS)
405	.Hair dyeing	444	DYEING PROCESS UTILIZING ELECTRIC, MAGNETIC, OR WAVE ENERGY; OR PRODUCT THEREOF
406	..Oxidation dye	445	PROCESS OF PRINTING PERMANENTLY ON SUBSTRATE, OTHER THAN NOMINAL PRINTING, USING PRINT PASTE CONTAINING DISCHARGE MATERIAL, RESIST MATERIAL, OR DYE MATERIAL; OR STENCIL DYEING
407	...With dye other than oxidation dye	446	.Resist or reserve
408	...Plural dyes or dye and coupling agent	447	..Wax
409	....Heterocyclic amine dye	448	..Chemically modified local areas
410	....Paradiaminobenzene dye	449	..Reactive dye
411	.....With metadiaminobenzene dye	450	..Oxidation dye, e.g., aniline, nitroaniline, etc.
412	.....With aminophenol dye	451	..Azo dye component ground
414	..Nitroaniline dye	452	..Mordant dye, e.g., dye with a metal chelating group, etc.
415	...Nitrophenylenediamine dye	453	..Vat dye or sulfur dye, e.g., quinonic or indigoid reducible dye, sulfur organic reaction product dye, etc.
416	..Aryldiamine dye	454	..Basic dye, including diphenylmethane, triphenylmethane, xanthene, fluorene, methine, acridine, oxazine, phenazine, flavylum, naphthoperinone, quinophthalone, quaternary ammonium group, etc., containing
421	..Aminophenol dye	455	..Acid (including direct) dye, e.g., sulfonated, sulfamated, etc.
423	..Aminoheterocyclic dye	456	..Disperse dye
424	..Phenols (natural oxidation dye)	457	.Discharge utilized
425	..Mordant, solvent dye formation or metallized azo dye	458	..Chemically modified local areas
426	..Basic dye, including diphenylmethane, triphenylmethane, xanthene, fluorene, methine, acridine, oxazine, phenazine, flavylum, naphthoperinone, quinophthalone, quaternary ammonium group, etc., containing	459	..Oxidation dye, e.g., aniline, nitroaniline, etc.
428	..Dye reactive with hair	460	..Mordant dye
429	..Developed on the hair		
431	..With fluid treatment, e.g., bleaching with dyeing, etc.		
432	...-S-S- bond disruption, e.g., use of thioglycolates, etc.		
433	...Swelling of hair		
435	..Solvent assisted dyeing		
436	.Leather dyeing		
437	..Azo dye		
438	PROCESS OF EXTRACTING OR PURIFYING OF NATURAL DYE		

## CLASS 8 BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS

461	..Vat dye or sulfur dye, e.g., quinonic or indigoid reducible, or sulfur organic compound reaction product dye, etc.	483	.Random pattern effect, e.g., space dyeing, etc.
		484	..Differential diffusion
		485	.Two or more sequential dye application steps
462	..Basic dye, including diphenylmethane, triphenylmethane, xanthene, fluorene, methine, acridine, oxazine, phenazine, flavylum, naphthoperinone, quinophthalone, quaternary ammonium group, etc., containing	486	.Direct contact with applicator
		487	..Roller or disc
		488	<b>BONDING OF PREFORM, E.G., FLOCKING, ETC., WITH DYEING, PROCESS OR PRODUCT</b>
		489	<b>DRAWING OR STRETCHING OF PREFORM WITH DYEING, PROCESS OR PRODUCT</b>
463	..Acid (including direct) dye, e.g., sulfonated, sulfamated, etc.	490	<b>PROCESS OF PRESERVING SUBSTRATE COMBINED WITH DYEING OR PRODUCT THEREOF, E.G., BIOCIDAL OR FIRE RETARDANT TREATMENT, ETC.</b>
464	..Disperse dye		
465	.Vat dye or sulfur dye, e.g., quinonic or indigoid reducible dye, sulfur organic compound reaction product dye, etc.	491	<b>OVERALL DIMENSIONAL MODIFICATION OR STABILIZATION, E.G., CREPING, ETC., INCLUDING USE OF CHEMICAL ADDITIVE TO FORM AT LEAST A TEMPORARY COMPOSITION, WITH DYEING PROCESS</b>
466	.Azo dye		
467	<b>DIFFUSION TRANSFER DYEING PROCESS, TRANSFER SHEET AND PRODUCT</b>	492	.Solvent treatment of synthetic fibers
468	.Release layer utilized	493	.Modification of molecular structure of substrate by chemical means, e.g., cross-linking of substrate, hydrolysis of substrate, etc.
469	.Steam		
470	.Dry heat treatment for penetration	494	<b>NOMINAL TEXTILE MANUFACTURE PROCESS COMBINED WITH DYEING</b>
471	..Sublimation	495	<b>COATING OR SIZING WITH DYEING PROCESS OR PRODUCT</b>
472	...Air pressure	496	.Aminoplast or aminoplast precursor coating
473	<b>SUBAMBIENT TEMPERATURE DYEING PROCESS, I.E., LESS THAN 20 DEGREES C.</b>	497	<b>FORMING, SHAPING, OR RESHAPING WITH DYEING PROCESS OR PRODUCT</b>
474	<b>REACTIVE GAS OR REACTIVE VAPOR UTILIZED IN DYE PROCESS</b>	498	<b>PROCESS OF DYEING INVOLVING DRY POWDER APPLICATION</b>
475	<b>CONFINED GAS PHASE SUPERATMOSPHERIC PRESSURE DYEING PROCESS (OTHER THAN STEAM BELOW 138 DEGREES C.)</b>	499	<b>SPRAY-DYEING PROCESS</b>
476	.Steam (at 138 degrees C. or above)	500	<b>DYEING PROCESS UTILIZING MECHANICAL PRESSURE, E.G., PRESSES, ETC.</b>
477	<b>FOAM DYE COMPOSITION OR PROCESS</b>		
478	<b>PATTERN EFFECT DYEING, PROCESS, COMPOSITIONS, OR PRODUCTS</b>	501	<b>TWO-PHASE SYSTEM DYEING COMPOSITION OR PROCESS</b>
479	.Discontinuous or multidirectional movement of substrate	502	<b>REPLENISHMENT OR REPLACEMENT OF SAME BATH LIQUOR IN DYEING PROCESS</b>
480	.Cross dyeing		
481	..Mixture of treated and untreated individual fibers	503	<b>DYEING PROCESS INVOLVING BURNING OF REAGENTS</b>
482	.Suppress dyeing, e.g., fold, twist, wrinkle, etc.		

504	<b>PROCESS INVOLVING PLURAL APPLICATION STEPS WITH SAME DYE</b>	529	<b>MULTIPLE CHEMICALLY DIVERSE FIBERS OR FIBERS WITH DIFFERENT CROSS SECTION, PROCESS OF DYEING OR PRODUCT</b>
505	<b>DIFFERENTIAL FLUID PRESSURE ASSISTED DYEING PROCESS, E.G., AIR PRESSURE, VACUUM, ETC.</b>	530	.Resisting a fiber
506	<b>NONTEXTILE, DYEING PROCESS OR PRODUCT, INCLUDING INORGANIC FIBER</b>	531	.Synthetic polyamide
507	.Contact lens	532	.Polyester fiber and cellulose fiber
508	.Vinyl chloride polymer substrate	533	.Polyester fiber and wool or silk fiber
509	.Acrylate polymer substrate	534	.Polyacrylonitrile fiber
510	.Acrylonitrile polymer substrate	535	<b>PHENOL-ALDEHYDE FIBER DYEING COMPOSITION, PROCESS, OR DYED PRODUCT</b>
511	..Contains basic addition comonomer, e.g., vinyl pyridine, etc.	536	<b>FIBER DERIVED FROM SAPONIFIED CELLULOSE ESTERS OR FROM NITROCELLULOSE CONVERTED TO CELLULOSE, DYE COMPOSITION, PROCESS, OR PRODUCT</b>
512	.Polymer from polyol and a polycarboxylic acid or derivative substrate	537	<b>MERCERIZED CELLULOSE FIBER OR PARCHMENTIZED CELLULOSE FIBER DYEING COMPOSITION, PROCESS, OR PRODUCT</b>
513	.Olefin polymer substrate or rubber	538	<b>GELLED FIBER-DYEING PROCESS OR PRODUCT</b>
514	..Styrene polymer	539	<b>SYNTHETIC FIBER PRODUCED FROM MATERIAL WHICH CONTAINS PENDANT -COO-, -(O=)S(=O)-O-, -O-(O=)P(=O)-O-, PYRIDINO, DIALKYLAMINOALKYL-, OR QUATERNARY AMMONIUM RADICAL, DYEING PROCESS OR PRODUCT</b>
515	.Polymer from isocyanate and polyol, e.g., polyurethane, etc., substrate	540	.Quaternary ammonium, pyridino, or dialkylaminoalkyl
516	.Amide polymer substrate	541	<b>ACYLATING AGENT OR CROSS-LINKER DYE ADDITIVE, COMPOSITION, PROCESS, OR PRODUCT</b>
517	..Natural polyamide, e.g., casein, gelatin, keratin, collagen, etc.	542	.Pretreatment of substrate
518	.Cellulose substrate other than paper	543	<b>REACTIVE DYE COMPOSITION, PROCESS, OR PRODUCT</b>
519	..Cellulose ester or cellulose ether	544	.1,2-epoxy terminal group dye or Halohydroxydye, e.g., -CH(OH)-CHCl containing
520	.Phenol-aldehyde resin substrate	546	.Thiosulfato group containing dye
521	.Oil, fat, wax, or gasoline dyeing	547	.Quaternary ammonium group containing dye
522	.Inorganic substrate	548	.Alkylene phosphate or phosphite dye
523	..Silica or calcareous substrate, e.g., glass, etc.	549	.Alkylene sulfato, halotriazine, halodiazine, haloquinoxaline, or halopyrimidine dye
524	<b>DRY DYE COMPOSITION OTHER THAN MERE MIXTURE OF TWO OR MORE DYES ALONE OR PROCESS OF MAKING</b>		
525	.Dye soap or detergent		
526	.Dye in specified form other than mere powder		
527	<b>DYE CONCENTRATE COMPOSITION WHEREIN AN ADDITIONAL AMOUNT OF A CONSTITUENT OF THE COMPOSITION MUST BE ADDED BEFORE USE</b>		
528	.Highly viscous dye concentrate, e.g., paste, etc.		

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550	<b>ORGANIC ADDITIVE FOR DYE COMPOSITION, DYE COMPOSITION CONTAINING ORGANIC ADDITIVE, PROCESS OR PRODUCT; OTHER THAN EMULSIFIER, PH ADJUSTER OR STARCH OR GUM PRINT PASTE THICKENER</b>	573	..Hetero N ring contains at least two nitrogen hetero atoms (including hydrogenated)
		574	.Five-membered hetero ring consisting of one nitrogen and four carbon atoms
551	.Ethylenimine or polymer thereof or polyalkylene polyamine	575	.Sulfur-containing hetero ring
552	.Polymeric additive	576	.Oxygen-containing hetero ring
553	..Derived from vinyl pyrrolidone or vinyl pyridine	577	..Furyl (including hydrogenated)
554	..Cationic polymer, e.g., aminated polymer without -COO-, -(O=)S(=O)-, -O(O=)P(=O)-O- groups, e.g., polyacrylamide, etc.	578	..Lactones
		579	..Hetero ring is six-membered consisting of one oxygen and five carbons
555	..Acrylamide or dialkylaminoalkylacrylate polymer	580	.Fats, higher fatty acids or esters, oils or waxes, other than nitrogen containing
556	...Cyanamide- or dicyandiamide-formaldehyde polymer	581	.Silicon-containing
557	..Acid polymer, e.g., carboxylated or sulfonated polymer	582	.Carboxylic acid esters, cyanates, isocyanates, or sulfur analogues thereof
558	...Acrylic acid polymer	583	..Aromatic
559	...Carboxyalkylene cellulose	584	.Phosphorus-containing
560	...Phenol-aldehyde polymer	585	.Ureas, thioureas, pseudoureas, or pseudothioureas
561	..Carbohydrate	586	.Carboxamides or thiocarboxamides
562	..Cellulose ester or cellulose ether	587	.Sulfur-containing
563	..Polypeptide or protein	588	..Sulfonic acids or sulfonic acid esters
564	.Lactam	589	...Aromatic
565	..Six-membered hetero ring having two or more ring hetero atoms of which at least one is nitrogen	590	...Amino
		591	...Acyclic
566	..Triazines (including hydrogenated)	592	..Sulfamic or sulfinic acids, salts, or esters
567	..Diazines (including hydrogenated)	593	..Sulfonamides
568	..Six-membered hetero ring consisting of one nitrogen and five carbon atoms	594	.Carboxylic acid or salt thereof
569	..Quinolines	595	..Tannins or tannic acid
570	.Five-membered hetero ring having two or more ring hetero atoms of which at least one is nitrogen	596	...Contains heavy metal
		597	..Amine
571	..Hetero N ring contains a sulfur atom (including hydrogenated)	598	..Acyclic
572	..Hetero N ring contains an oxygen atom (including hydrogenated)	599	...Hydroxy-containing
		600	...Heavy metal-containing
		601	...Halogen-containing
		602	.Nitrogen-containing, other than nitro or nitroso
		603	..Nitrile
		604	..Amino alkanol
		605	..Anilines
		606	..Quaternary ammonium compound
		607	.Ketone
		608	.Aldehyde
		609	.Ether
		610	..Aryl ether
		611	.Alcohol
		612	..Chlorohydrin

613	..Phenols	648	.Fluorescent dye, e.g., stilbene, benzimidazole, benzoxazole, benzothiazole, pyrazoline dye, etc., optical brightner or bluing agent
614	.Halogen-containing	649	.Oxidation dye, e.g., aniline, nitroaniline, etc.
615	..Fluorine	650	.Sulfur dye or vat dye
616	..Aromatic	651	..Soluble leuco ester salts
617	.Hydrocarbon	652	..Sulfur dye (sulfur-organic reaction product dye)
618	<b>INORGANIC ADDITIVE FOR DYE COMPOSITION, DYE COMPOSITION CONTAINING INORGANIC ADDITIVE, PROCESS OR PRODUCT; OTHER THAN EMULSIFIER, PH ADJUSTER, WATER, NITROUS ACID FOR AZO COUPLING OR SULFUR REDUCING AGENT FOR VAT OR SULFUR DYE</b>	653	..Indigoid dye
619	.Ammonia	654	.Basic (cationic) dye containing strongly basic onium or alkylene imine group
620	.Ammonium salt	655	..Heterocyclic onium group, e.g., pyridinium, etc.
621	.Molybdenum, uranium, or tungsten (wolfram)	657	.Basic dye, including diphenylmethane, triphenylmethane, xanthene, fluorene, methine, acridine, oxazine, phenazine, flavylum, naphthoperinone, quinophthalone, etc., group-containing
622	.Group VA metal (As, Sb, Bi)	658	..Acid dye form, e.g., with sulfonic acid group, etc.
623	.Group VIII metal (Fe, Co, Ni, Os, Ir, Pt, Ru, Rh, Pd)	659	..Methine group
624	.Group IB metal (Cu, Ag, Au)	661	.Phthalocyanine dye
625	.Group IIIA metal (Al, Ga, In, Tl)	662	.Azo, acridone, or quinone dye
626	.Group IV metal (Sn, Pb, Ge, Ti, Zr, Hf)	663	..Naphthoquinone dye
627	.Group VB metal (V, Nb, Ta)	664	..Stabilized or potential diazo compound
628	.Group VII metal (Mn, Tc, Re)	665	...Nitrosamine or N-diazo
629	.Group IIB metal (Zn, Cd, Hg)	666	..Azo developed on the fiber
630	.Boron	667	...Nitroaromatic component
631	.Nitrogen	668	...Pyrazolone component
632	.Silicon	669	...Polyazo component
633	.Phosphorus	670	...Heterocyclic component
634	.Halogen acids	671	...Me-C(=O)-CH-C(=O)- group-containing
635	.Chromium	672	..Dye containing removable solubilizing group, e.g., lactam radical, etc., or the dye is oxidized to insolubilize
636	<b>DYE OR POTENTIAL DYE COMPOSITION, ADDITIVE, TREATMENT, PROCESS, PRODUCT, OR ANCILLARY DYE OPERATION</b>	673	..Dye containing -COOH
637.1	.Pigments used as dyes (imbibition of a pigment)	674	...Metallized, heavy metal
638	.Mixed dyes, noncomplexed	675	..Anthraquinone dye
639	..Azo	676	...Sulfonic acid or salt thereof or sulfonamide
640	...With sulfur dye or vat dye	677	...Heterocyclic group
641	...Sulfonated azo	678	...Phenoxy, phenol, mercapto, alkoxy, or thioalkyl group
642	..Sulfur dye or vat dye		
643	..Anthraquinone dye		
644	..Basic dye		
645	.Inorganic dye (mineral dye)		
646	.Dye extracted from natural product		
647	.Polymeric dye, e.g., a chromophore pendant from an addition polymer, etc.		

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679	...Anilino group on the anthraquinone nucleus	94.24	..With aldehyde-aromatic condensation product
680	..Dye containing $-(O=S(=O)-O-$ , $-O(O=S(=O)-O-$ or phosphorus oxide group	94.25	..With heavy metal compound
681	...Sulfonated azo	94.26	...With organic material
682	....Monoazo	94.27	...Chromium compound
683	.....Monosulfonated	94.28	...Iron compound
684	.....Heterocyclic	94.29	..With aluminum compound
685	..Metallized dye, including metallization during dyeing (i.e., including in situ forming of metallized dye)	94.3	...With vegetable extract
686	..Heterocyclic	94.31	..With cellulose liberation liquor
687	..Polyazo dye	94.32	..With vegetable extract
688	..Six-membered hetero ring having two or more ring hetero atoms of which at least one is nitrogen	94.33	..With organic material
689	...Diazines (including hydrogenated)	94.19 C	..Resin condensation in situ in leather
690	..Five-membered hetero ring having two or more ring hetero atoms of which at least one is nitrogen	94.1 D	.Leather dehydration
691	...Thiazoles (including hydrogenated)	94.1 P	.Phosphorus compounds on leather
692	...Diazoles or triazoles (including hydrogenated)	101	<b>BLEACHING</b>
693	..-COO-alkyl or -COO-aryl hydrocarbon	102	.Color stripping or subduing
694	..Aryl-(O=S(=O)-N-	103	.Wave energy
695	..HO-C-C-N-	107	.Chemical
696	..Carbonyl bonded directly to nitrogen	108.1	..Chlorine
94.1 R	<b>TREATMENT OF HIDES, SKINS, FEATHERS AND ANIMAL TISSUES</b>	109	...With sulfur compounds or peroxides or oxygen
94.11	.Internal tissues	110	..Sulfur compounds
94.12	.Fish or reptile skins	111	..Peroxides or oxygen
94.13	.Suede	112	<b>IMPROVING FELTING PROPERTIES (E.G., CARROTING)</b>
94.14	.Fur	114	<b>ORNAMENTAL EFFECTS</b>
94.16	.Depilating	114.5	.Differential creping
160	..Adhesive type	114.6	.With fiber destruction or removal
161	..Living animal	115	.With local treatment
94.15	.Treatment of untanned skins or hides	115.51	<b>CHEMICAL MODIFICATION OF TEXTILES OR FIBERS OR PRODUCTS THEREOF</b>
94.17	..Alkaline material removal	115.6	.With coating, sizing, or lubricating
94.18	..With organic material	115.7	.Mixed fibers
94.19 R	.Tanning	116.1	.Cellulose fibers
94.2	..With subsequent treatment	181	..Treatment with nitrogen-containing organic compound
94.21	...Organic material	182	...With aminoplast condensate or aminoplast condensate-former
94.22	....Fat, fatty oil, fatty oil acid or salt thereof	183	....Triazine-aldehyde condensate
94.23	.....Emulsions	184	....Amido-aldehyde condensate
		185	.....Urea-aldehyde condensate
		186	.....Alkylatedurea-aldehyde condensate
		187	.....Carbamic-aldehyde condensate
		188	...Quaternary ammonium compound
		189	...Heterocyclic nitrogen compound
		190	....Triazine
		191	....Three-membered ring with two C and one N

192	...Cyano-, isocyano-, thiocyano-, or isothiocyano-group containing	115.63	...Reactant containing nonaromatic carbon-carbon double bond also contains sulfur atom
193	...Ethylenic radical containing	115.64	...Organic reactant contains element other than C, H, O, N or S
194	...Amide	115.65	...Organic reactant contains nitrogen
195	...Urea or thiourea	115.66	...Organic reactant contains plural nitrogen atoms nonbonded to each other
196	...Amine	115.67	...Reactant contains isocyanate group
116.4	..Treatment with aldehyde or ketone	115.68	..Inorganic nongaseous chemical reactant
117	..Wool-like or crinkle effects	115.69	...Oxidizing or alkaline agent
118	..Transparent, parchmented, or linen finish	130	..Saponifying
119	...Paper	130.1	<b>SWELLING OR PLASTICIZING OF ARTIFICIAL FIBERS</b>
120	..Esterifying, etherifying or immunizing	131	.Cellulose ester or ether fibers
121	...Acetylation	132	..With stretching
122	...Xanthogenation	133	<b>FIBER PROTECTING DURING FLUID TREATMENT</b>
123	..Cuprammonium treatment	137	<b>CLEANING OR LAUNDERING</b>
125	..Mercerizing or alkaline treatment	137.5	.Removing formation impurities from artificial fiber
127	...Wetting addition or pretreatment	138	.Degumming or desizing
127.1	..Treatment with phosphorus containing material	139	.Scouring, degreasing or bowking
127.5	.Proteinaceous fibers	139.1	..With fat solvent
127.51	..Hair	140	.Carbonizing
127.6	..Treatment with aldehyde or aldehyde derivative, ketone or nitrogen containing organic compound	141	.Waste reclaiming and conditioning
128.1	..Natural wool or silk	142	.Dry cleaning
128.3	...Chemical modification in the presence of a sulfur or silicone containing material	147	<b>FLUID TREATMENT (MANIPULATIVE)</b>
129	.Cellulose ester or ether fibers	148	.Confined areas
115.52	.Using wave energy, electrostatic field or electrical discharge	149	.Intermittent length
115.53	..Ultraviolet radiation	149.1	.Combined liquid and gas or vapor
115.54	..Treating textiles or fibers from synthetic resin or natural rubber with chemical reactant	149.2	.Gas or vapor
115.55	..Single fiber or filament containing more than one synthetic organic polymer	149.3	..Including steam
115.56	..Organic chemical reactant	150	.Special forms and forming
115.57	...Reactant contains heterocycle	150.5	..Hides, skins or leather
115.58	...Reactant contains nitrogen heterocycle	151	..Running lengths
115.59	....Contains six-membered nitrogen heterocycle	151.1	...Helical textile course
115.61	...Reactant contains oxygen heterocycle	151.2	...Yarns
115.62	...Reactant contains nonaromatic carbon-carbon double bond	152	...Piling
		154	..Wound packages
		155	...Yarns
		155.1	....Radial liquid flow
		155.2	....Skeins, cakes or cheeses
		156	..Pulp or fibers (in bulk)
		157	.Kier treatment
		158	.Manipulation of liquid
		159	..Agitating immersed material and liquid

CROSS-REFERENCE ART COLLECTIONS

900 **BASIC EMULSIFIERS FOR DYEING**  
 901 .Quaternary ammonium salts  
 902 **COACERVATION OR TWO-PHASE DYEING SYSTEM**  
 903 **TRIPLE MIXTURE OF ANIONIC, CATIONIC, AND NONIONIC EMULSIFIERS FOR DYEING**  
 904 **MIXED ANIONIC AND NONIONIC EMULSIFIERS FOR DYEING**  
 905 **MIXED ANIONIC AND CATIONIC EMULSIFIERS FOR DYEING**  
 906 **MIXED CATIONIC AND NONIONIC EMULSIFIERS FOR DYEING**  
 907 **NONIONIC EMULSIFIERS FOR DYEING**  
 908 **ANIONIC EMULSIFIERS FOR DYEING**  
 909 .Sulfonated or sulfated aliphatic hydrocarbons  
 910 .Soap  
 911 ..Sulfonated  
 912 .Arylene sulfonate-formaldehyde condensate or alkyl aryl sulfonate  
 913 **AMPHOTERIC EMULSIFIERS FOR DYEING**  
 914 .Amino carboxylic acids  
 915 .Amino sulfonic acids  
 916 **NATURAL FIBER DYEING**  
 917 .Wool or silk  
 918 .Cellulose textile  
 919 .Paper  
 920 **SYNTHETIC FIBER DYEING**  
 921 .Cellulose ester or ether  
 922 .Polyester fiber  
 923 ..Halopolyester  
 924 .Polyamide fiber  
 925 ..Aromatic polyamide  
 926 .Polyurethane fiber  
 927 .Polyacrylonitrile fiber  
 928 .Polyolefin fiber  
 929 **CARPET DYEING**  
 930 **PRETREATMENT BEFORE DYEING**  
 931 .Washing or bleaching  
 932 **SPECIFIC MANIPULATIVE CONTINUOUS DYEING**  
 933 **THERMOSOL DYEING, THERMOFIXATION OR DRY HEAT FIXATION OR DEVELOPMENT**  
 934 **HIGH TEMPERATURE AND PRESSURE DYEING**

935 **IMMUNIZATION AS A RESIST IN DYEING**  
 936 **SOLUBILITY STUDIES ON DYES**  
 937 **LI ION IN DYE BATH**  
 938 **SOLVENT DYES**  
 939 **NAPHTHOLACTAM DYE**

FOREIGN ART COLLECTIONS

FOR **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 1 **SILICONES**  
 DIG 2 **VINYL SULFONES AND PRECURSORS THEREOF**  
 DIG 3 **SWELLING AND STRETCHING**  
 DIG 4 **POLYESTER FIBERS**  
 DIG 5 **ORGANIC TITANIUM COMPOUNDS ON TEXTILES**  
 DIG 6 **RESIN BLEACH**  
 DIG 8 **OXIRANE**  
 DIG 9 **POLYOLEFIN**  
 DIG 10 **POLYVINYL HALIDE ESTERS OR ALCOHOL FIBER MODIFICATION**  
 DIG 11 **ISOCYANATE AND CARBONATE MODIFICATION OF FIBERS**  
 DIG 12 **WAVE ENERGY TREATMENT OF TEXTILES**  
 DIG 13 **CYANOETHYLATION OF FIBERS**  
 DIG 14 **DRY MIXTURES OF TEXTILE REAGENTS**  
 DIG 15 **PRESSURIZED GAS TREATMENT OF TEXTILES**  
 DIG 16 **PRESSURIZED AND HIGH TEMPERATURE LIQUID TREATMENT OF TEXTILES**  
 DIG 17 **GLYOXAL AND POLYALDEHYDE TREATMENT OF TEXTILES**  
 DIG 18 **GRAFTING TEXTILE FIBERS**  
 DIG 19 **MOLTEN METAL**  
 DIG 20 **-N-CL COMPOUND**  
 DIG 21 **NYLON**