

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1907

APRIL 5, 2011

PROJECT C-6865

**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>	156	344, 584	1745	OS0001
<b>Established:</b>	156	701-719, 750-767	1745	OS0001
Cross-Reference Art Collections:	156	918-932, 934-943	1745	OS0001

**The following classes are also impacted by this order:**

24, 29, 221, 225, 264, 438, 700

**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

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1           **METHODS**

Class 216 is an integral part of this Class (Class 156), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

- 39        ..Plaster board making
- 40        ..With bending or folding of facing sheet
- 41        ..With water-proofing with added material
- 42        ..With embedding of reinforcing material during or subsequent to core formation
- 43        ..Pore forming in situ
- 44        ..With preliminary treatment of facing sheet
- 45        ..With subsequent treatment of plaster board
- 46        ...Perforating
- 47        ..Making electrical conductors of indefinite length
- 48        ..With filling of void or cavity with fluent material
- 49        ..Splicing
- 50        ..With mechanical working of conductor
- 51        ..Covering of conductor
- 52        ...With preformed material
- 53        ...Wrapping of sheet material (e.g., tape) about conductor and/or conductor assembly
- 54        ....By longitudinally bending sheet
- 55        ....Plural spaced conductors
- 56        ....Plural covering operations
- 57        ..Maintaining the natural appearance of plants or animal parts
- 58        ..Contour or profile photography to reproduce three-dimensional objects
- 59        ..Relief or intaglio representations of three-dimensional objects (e.g., relief modeling of photographs)
- 60        ..Surface bonding and/or assembly therefor
- 61        ..Simulated products of nature

- 62        ..With manual drawing or engraving
- 62.2     ..With formation of lamina by bulk deposition of discrete particles to form self-supporting article
- 62.4     ...Liberation or formation of fibers
- 62.6     ...By joining portions of batt to itself
- 62.8     ...To similarly formed batt
- 63        ..Manually arranging different colored or shaped discrete elements to form design
- 64        ..With measuring, testing, or inspecting
- 65        ..Of multiple spaced elements between and transverse of parallel webs (e.g., Venetian blind ladders)
- 66        ..Adhesive application of fasteners to articles (e.g., slide fastener to garment)
- 67        ..Utilizing phosphorescent or fluorescent material
- 68        ..With fur removal from animal pelt
- 69        ..Application of end closures to containers
- 70        ..Encasing movable or loosely confined element between adhering lamina (e.g., drawstrings)
- 71        ..Of lamina to building or installed structure
- 72        ..Setting or embedding tufts or discrete pile elements onto backing (e.g., rugs, brushes, etc.)
- 73.1     ..With sonic or ultrasonic treatment
- 73.2     ...Rod, strand, or filament
- 73.3     ...With sonic or ultrasonic cutting
- 73.4     ...Sheet or web splicing
- 73.5     ..Friction treatment (e.g., welding)
- 73.6     ..Vibratory treatment
- 74        ..With application of centrifugal force
- 75        ..With balancing of product
- 76        ..With parchmentizing or transparentizing

77	..With pore forming in situ to form cellular lamina	91	..With separate permanent mechanical joining means (riveted, sewed, stapled, etc.)
78	...Foaming	92	...With penetrating of fastener
79	....Subsequent to assembly of laminae	93	....Sewing
80	..With refrigeration or freezing	94	..Reclaiming, renewing or repairing articles for reuse
81	..With melting or gasification of permanently associated solid material in situ in airtight cavity	95	...Toroidal shapes (e.g., tire or tube)
82	..With flame contact of lamina	96	....Adhesively secured tire retreads
83	..With swelling of material of lamina	97	....Puncture repairing
84	..With shrinking of material of lamina	98	..With removal of defective area to be repaired
85	...Subsequent to assembly of laminae	99	..Optically transparent glass sandwich making (e.g., window or filter)
86	....Of lamina covering cylindrical or spherical body	100	..Variegated colored lamina or interlayer
87	..Providing escapeways for gases trapped or generated between layers	101	..With cutting or breaking or partial removal of interlayer and/or lamina
88	..Fray-prevention by bonding	102	..With deformation or shaping of interlayer and/or lamina
89.11	..With vitrification or firing ceramic material	103	..With application of plural sequential pressures
89.12	...Forming electrical article or component thereof	104	..With air evacuation between laminae
89.13	....Elemental carbon containing (e.g., graphite, etc.)	105	..Directly applied fluid pressure
89.14	....Inorganic titanate compound containing	106	..With preformed intermediate adhesive layer
89.15	....Nitride compound containing	107	...Sandwich edge sealing
89.16	....Elemental metal or alloy containing	108	..Mounting transparent lamina over window opening (e.g., slide-mounting)
89.17	.....Silver containing	109	..Multipane glazing unit making (e.g., air-spaced panes)
89.18	.....Copper containing	110.1	..Making flexible or resilient toroidal shape; e.g., tire, inner tube, etc.
89.19	.....Tungsten containing	111	...Moving work progressively to separate assembly stations
89.21	.....Molybdenum containing	112	...Solid tire type (i.e., nonpneumatic)
89.22	..Honeycomb-like	113	...Having cushioning void or cavity
89.23	..With wax or wax-like processing aid	114	...Incorporation of solid nonrubber material at exposed tread surface of tire (e.g., anti-skid)
89.24	...Coloring agent containing	115	...Applying flowable puncture sealing material
89.25	...Elemental carbon containing (e.g., graphite, etc.)		
89.26	....Carbon fibers or filaments		
89.27	...Nitride compound containing		
89.28	...Elemental metal or alloy containing		
90	..Utilizing layer to prevent migration or bleeding between laminae		

116	...Applying differently colored material at sidewall (e.g., white wall)	140	...With plastic shaping or molding
117	...Building tires directly from strands or cords	141	....Wrapping of belt prior to shaping
118	...Tubular (airtight) torus (e.g., auto tube-making)	142	...With cutting to "V" or trapezoid section
119	....Multichamber safety tube	143	..Helical wire or plural ring reinforced flexible tube making
120	....Valve-applying	144	..Assembling preformed helical coil or rings with separate tube
121	....Applying reinforcing material to external tube surface	145	..With encapsulating of permanently fluent material in hollow or porous lamina or filling of space between adhered laminae
122	....Joining tube ends to form torus	146	...Prior to bonding of laminae (e.g., golf balls)
123	...Of plural layers	147	....With inflation of airtight cavity
124	....At least one layer including metal cords	148	..With weaving, knitting, braiding, twisting or needling
125	....With injection molding of outer lamina	149	...About tubular lamina
126	....Axially assembling preformed flexible endless bands	150	..With electro-deposition
127	....With tread-preforming	151	...On adherent surface of lamina prior to assembly
128.1	....Applying tread material to fully-formed carcass	152	..With temporary disassembling and subsequent bonding of same laminae
128.6	....With specified treatment of tread material before application to carcass	153	..With abrading or grinding of lamina
129	.....Shaping	154	...Subsequent to assembly
130	.....By winding or including application of inextensible lamina under tread bond	155	..With destruction of solid transitory material; e.g., dissolving, melting, etc.
130.3	....With specified procedure for interlocking of lamina or removal of air from therebetween; e.g., "stitching", etc.	156	..With fluid pressure to prevent collapse of hollow structure during assembly and/or joining
130.5	....With specified procedure for cooling or heating; e.g., for vulcanization, etc.	157	..Joining indefinite length laminae end-to-end
130.7	....With specified procedure for bead, carcass or sidewall formation	158	...Of wire, rod, tube or filament
131	....Bead-applying	159	...With cutting of joining ends
132	....Folding fabric about bead	160	..Bonding in stressed condition of at least one prestressed element
133	....Applying fabric to form (e.g., carcass building)	161	...Of stressed filaments
134	....Fabric splice end treatment	162	...During winding of lamina
135	...Bead portion of carcass treatment	163	...Bonding of sheets or webs only
136	..Tire bead ring making	164	....Running length web
137	..Flexible endless drive belt making	165	...Stressing spherical or tubular body
138	...Forming grooves on inner surface	166	..Bonding of flexible filamentary material while in indefinite length or running length
139	..."V" or trapezoid section belt		

167	...With formation of filaments	198	...By inward collapsing of portion of hollow body
168	..With removal of filamentary material subsequent to lamination thereof	199	...Running or continuous length work
169	...With winding of filamentary material	200	...Longitudinal bending
170	....About spherical lamina	201	....Prior to or during assembly with additional lamina
171	....With winding of separate sheet or web	202	....Overedge bending or overedge folding
172	...Winding about and uniting to core	203	....And edge-joining of one piece blank to form tube
173	...Winding about subsequently removed core or mandrel	204	...Folding
174	....With cutting of filamentary material to form web or sheet	205	...Transverse corrugating
175	....Of filamentary material only	206	....Subsequent to assembly of laminae
176	...To web of indefinite length	207	....With deformation or cutting of corrugated lamina
177	...With axis of filamentary material nonparallel to axis of web	208	....Treating material of corrugated lamina or dry adhesive thereon to render tacky
178	....Plural filaments	209	...Surface deformation only (e.g., embossing)
179	....Between plural webs	210	...To form undulated to corrugated sheet and securing to base with parts of shaped areas out of contact
180	..Of filamentary material only to form article	211	...With slitting or removal of material at reshaping area prior to reshaping
181	....Article is sheet or web	212	...By bending, drawing or stretch forming sheet to assume shape of configured lamina while in contact therewith
182	..Of at least two bonded subassemblies	213	...Encasing or enveloping the configured lamina
183	..With creping, wrinkling, crinkling	214	...With preshaping of lamina
184	..With winding of web or sheet	215	...Flexible sheet to cylinder lamina
185	...Uniting to separate core	216	...Overedge bending of lamina about edges of sheetlike base
186	....Spherical core	217	...Bending of one piece blank and joining edges to form article
187	....Tubular core	218	....Hollow cylinder article
188	....Sequential winding of separate webs	219	...Surface deformation only of sandwich or lamina (e.g., embossed panels)
189	..About irregular or configured mandrel surface	220	....Subsequent to lamination
190	...Sequential winding of separate webs	221	...Subsequent to assembly
191	..With additional assembly (other than winding)	222	....Of parallel stacked sheets only
192	....Prior to winding	223	....Bending of one lamina only
193	...With cutting of wound body (excludes nominal cutoff)	224	....To form dished or receptacle-like product
194	...With reshaping of wound body	226	....Folding only
195	...Longitudinally progressive helical winding		
196	..With permanent bending or reshaping or surface deformation of self sustaining lamina		
197	...By separating laminae between spaced secured areas (e.g., honeycomb expanding)		

- 227 ...By folding
- 228 ..Of preshaped laminae between closed similarly shaped press platens or clamps
- 229 ..With stretching
- 230 ..Direct contact transfer of adhered lamina from carrier to base
- 231 ...With formation of lamina of continuous length by molding or casting on endless carrier
- 232 ...Carrier is configured mold
- 233 ...Metal foil lamina
- 234 ...Of portion only of lamina from carrier
- 235 ...Plural transferring operations and/or with additional laminating
- 236 ...Solvent other than water to release lamina
- 237 ...Coating of transferred lamina
- 238 ...Running or continuous flexible web carrier
- 239 ...Plural superimposed laminae transferred
- 240 ....Transfer of printing or design
- 241 ...To base coated with adhesive
- 242 ..With lamina formation by molding or casting
- 243 ...Forming plural continuous web laminae
- 244.11 ...By extrusion
- 244.12 ....Encapsulating or enclosing a lamina
- 244.13 ....Hollow article or lamina
- 244.14 .....Differential fluid pressure used
- 244.15 .....Specific nonuniform lamina or article; e.g., netting or rib and groove, etc.
- 244.16 ....With printing
- 244.17 ....Electrical, magnetic, or wave energy used
- 244.18 ....With cutting, severing, or perforating
- 244.19 .....After bonding; e.g., as finishing step, etc.
- 244.21 ....Differential fluid pressure used
- 244.22 ....Bonding spaced preforms
- 244.23 ....Pretreatment
- 244.24 ....Post-treatment
- 244.25 ....Article or at least one lamina of nonuniform thickness or discontinuous
- 244.26 ...Bonding in specified environment (other than temperature)
- 244.27 ...Pressure assisted bonding
- 245 ...In configured mold
- 246 ...On temporary planar support (e.g., film casting)
- 247 ..With stripping of adhered lamina
- 248 ...With cutting of one lamina only while adhered
- 249 ...And assembly with different lamina
- 250 ..With cutting, punching, tearing or severing
- 251 ...And simultaneously bonding (e.g., cut-seaming)
- 252 ...Perforating lamina
- 253 ...Subsequent to assembly of laminae
- 254 ...Splitting sheet lamina in plane intermediate of faces
- 255 ...Spiral peeling
- 256 ...Prior to assembly
- 257 ....Partial cutting (e.g., grooving or incising)
- 258 ....Cutting to shape joining edge surfaces only
- 259 ....Continuous longitudinal slitting
- 260 ....Bonding face to face of laminae cut from single sheet
- 261 ...Punching and bonding pressure application by punch
- 262 .....Closure cap liner applying type
- 263 ...Separate cutting of separate sheets or webs
- 264 ...Of plural laminae from single stock and assembling to each other or to additional lamina
- 265 ....Applying plural cut laminae to single face of additional lamina
- 266 .....Joining of cut laminae end-to-end
- 267 ...Flash, trim or excess removal
- 268 ...Partial cutting bonded sandwich (e.g., grooving or incising)
- 269 ...Of continuous or running length bonded web

270	....One web only	285	..Direct application of vacuum or fluid pressure during bonding
271	....Continuous longitudinal slitting	286	...To remove gas from between assembled laminae
272.2	..With direct application of electrical, magnetic, or radiant energy to work	287	...To the lining of hollow body
272.4	...Involving magnetically susceptible lamina or incorporating into the work a particulate susceptor material having magnetic properties	288	..Simultaneous pressure application to at least two separate sandwiches
272.6	...Exposure of work to corona or glow discharge	289	..Utilizing parting or release material to prevent adhesion
272.8	...Exposure of work to laser	290	..Bonding of facing continuously contacting laminae at spaced points only
273.1	...Developing electrostatic charge	291	...By nonuniform adhesive application
273.3	...Before final assembly; e.g., to cure lamina, etc.	292	..Of laminae having opposed facing areas out of contact
273.5	....Before and after final assembly	293	..Inserting of lamina in hole, aperture or recess of other lamina and adherence to side walls thereof
273.7	...Applying pressure before electrical, magnetic, or radiant energy	294	...Core within tube
273.9	...Work constitutes conductor of electrical circuit	295	..Adhesive applying to restricted area and spreading thereof by assembly pressure
274.2	....Conductor is a coil	296	..Strands, rods, tubes or sticklike bodies to each other only
274.4	...Exposure of work to electrode	297	..Of discrete laminae to single face of additional lamina
274.6	....Continuously moving work in relation to electrode	298	...Embedding of laminae within face of additional laminae
274.8	....With application of adhesive	299	...All laminae planar and face to face
275.1	..Only part of containing lamina surfaces bonded; e.g., seaming, etc.	300	...With covering of discrete laminae with additional lamina
275.3	....With application of adhesive	301	....Opposed laminae are running length webs
275.5	...To polymerize or cure material in work	302	....Lamina is running length web
275.7	..With application of adhesive	303	....Feeding of discrete laminae from separate sources
276	..With mass application of nonadhesive fibers or particles between laminae	303.1	..Inserting lamina into preformed plastic body
277	..With printing	304.1	..Butt edge joining of laminae
278	..With coating of nonadherent face of lamina	304.2	...Joining of nonplanar elements; e.g., configured hollow objects, etc.
279	...Coating with fibers or particles	304.3	...With joiner member or reinforcement
280	...Subsequent to bonding	304.4	...Carpet or fabric joined
281	..Combined; e.g., with cleaning, etc.	304.5	...With preliminary edge treatment or joining of edges of irregular shape; e.g., tongue and groove, beveled, etc.
282	..Simultaneous heating and cooling		
283	..Adhesive applied as dry particles		
284	...Treating particle with liquid to render tacky		



304.6	...By heat	314	..Sequentially applying different liquids or liquefiable materials to adhering face of lamina
304.7	...Of carpet or fabric		
305	..By applying after assembly an adhesive, solvent or chemical activating agent	315	...At least two liquids rubber and/or resin-containing
306.3	..By pressure or drying only, without tack; e.g., for easy delamination, etc.	316	...First applied liquid acid-containing
306.6	..Using single, preformed, diverse bonding lamina between other laminae	317	...Protein-containing liquid
306.9	...Including curing of nonfully polymerized material	318	...Carbohydrate-containing liquid
307.1	..By curing of nonfully polymerized self-sustaining lamina	319	...One liquid containing inorganic material only
307.3	...With coating or impregnating a face to be adhered	320	..Heating of dry adhesive on lamina prior to assembly contact
307.4	...Indefinite plurality of similar impregnated thin sheets; e.g., "decorative laminate" type, etc.	321	..Heating adhesive by contacting with heated lamina
307.5	...Coating solidified; e.g., by drying, etc., before assembly	322	..Heating lamina prior to assembly or adhesive applying
307.7	...Including uncurable lamina; e.g., metal, paper, etc.	323	..Interposing subsequently removed flexible element between lamina and a pressure applying surface
308.2	..By tackifying substance of self-sustaining lamina to be bonded; e.g., autogenous bonding, etc.	324	..Running or continuous webs of indefinite length
308.4	..Only part of contacting laminae surfaces bonded; e.g., seam, seal, etc.	324.4	..By tackifying a single lamina of intermediate laminate
308.6	...With treating agent application to a surface	325	..Particular adhesive
308.8	...Plural agents applied sequentially or to different laminae or using water as sole agent	326	...Organic containing
309.3	...Diverse laminae	327	...Synthetic resin containing
309.6	...Involving defined plastic flow or melting of entire lamina	328	...With carbohydrate and/or protein or derivatives thereof
309.9	...With heating of lamina prior to assembly	329	...Silicon resin
310	..Of laminae having a different coating on at least two mating surfaces	330	...Epoxy resin
311	..Sequential heating and cooling during pressure applying	330.9	...Nitrogenous resin
312	..Sequential different pressure applying	331.1	...With polymerization completion, i.e., curing, after assembly
313	..Interposing intermediate laminate between non-coated laminae	331.2	...N only in unlinked side-chain or side-ring
		331.3	...Derived from aldehyde or ketone
		331.4	...Iso- or thio-cyanate moiety reacted in curing
		331.5	...N in a ring
		331.6	...N only in unlinked side-chain or side-ring; e.g., polyvinyl, pyridine, etc.
		331.7	...Derived from iso- or thio-cyanate; e.g., polyurethane, etc.
		331.8	...Derived from acyclic compound containing N

331.9	.....And aldehyde, ketone, or carbocyclic moiety-containing compound	716	...With poking during delaminating (e.g., jabbing, etc.)
332	....Polycarboxylic acid ester resin	717	...Piercing layer during delaminating (e.g., cutting, etc.)
333	....Halogenated hydrocarbon resin	718	..With shearing during delaminating
334	....Hydrocarbon resin	719	..Delaminating from release surface
335	....Phenolic-aldehyde resin	345.1	<b>DIFFERENTIAL FLUID ETCHING APPARATUS</b>
336	...Protein and/or carbohydrate containing and/or derivatives thereof	345.11	..For liquid etchant
337	...Bituminous containing	345.12	..With mechanical polishing (i.e., CMP-chemical mechanical polishing)
338	...Natural rubber containing	345.13	...With measuring, sensing, detection or process control means
701	..Delaminating, per se; i.e., separating at bonding face	345.14	...With wafer retaining ring
702	..Delaminating process responsive to feed or shape at delamination	345.15	..With measuring, sensing, detection or process control means
703	..Using solvent during delaminating (e.g., water dissolving adhesive at bonding face during delamination, etc.)	345.16	...With endpoint detection means
704	...Using specified organic delamination solvent	345.17	...Liquid etchant spray means
705	..Using vibration during delaminating	345.18	..With means to supply, remove, or recycle liquid etchant outside of etching tank or chamber (e.g., supply tanks or pipe network)
706	..Using direct fluid current against work during delaminating	345.19	..With mechanical mask or shield or shutter for shielding workpiece
707	..Using vacuum directly against work during delaminating	345.2	..Running length workpiece (e.g., etching indeterminate length strip)
708	...Using air blast directly against work during delaminating	345.21	..Liquid etchant spray type
709	..Changing dimension during delaminating (e.g., crushing, expanding, warping, etc.)	345.22	..With plural etching zones for a single discrete workpiece in apparatus
710	...Using shrinking or swelling agent during delaminating	345.23	..With specified workpiece support
711	..Temperature change for delamination (e.g., heating during delaminating, etc.)	345.24	..With measuring, sensing, detection or process control means
712	...Electromagnetic radiation applied to work for delamination (e.g., microwave, UV, IR, etc.)	345.25	..For endpoint detection
713	...Sintering for delamination	345.26	..For detection or control of pressure or flow of etchant gas
714	..Gripping and pulling work apart during delaminating	345.27	..For temperature detection or control
715	..Using roller for delamination (e.g., roller pairs operating at differing speeds or directions, etc.)	345.28	..For detection or control of electrical parameter (e.g., current, voltage, resistance, power, etc.)

- 345.29 .With etchant gas supply or exhaust structure located outside of etching chamber (e.g., supply tank, pipe network, exhaust pump, particle filter)
- 345.3 .With mechanical mask, shield or shutter for shielding workpiece
- 345.31 .With means for passing discrete workpiece through plural chambers (e.g., loadlock)
- 345.32 ..With robot arm connected by doors to plural other chambers (i.e., cluster tool)
- 345.33 .With gas inlet structure (e.g., inlet nozzle, gas distributor)
- 345.34 ..Showerhead-type
- 345.35 .With plasma generation means remote from processing chamber
- 345.36 ..By microwave
- 345.37 .With heating or cooling means for apparatus part other than workpiece support
- 345.38 .With multiple gas energizing means associated with one workpiece etching
- 345.39 .With means to generate and to direct a reactive ion etchant beam at a workpiece
- 345.4 .With means to direct electron beam or ion beam to a gas to energize the gas
- 345.41 .With microwave gas energizing means
- 345.42 ..With magnetic field generating means for control of the etchant gas
- 345.43 .Having glow discharge electrode gas energizing means
- 345.44 ..Electrically coupled to a power supply or matching circuit
- 345.45 ..Including more than two electrodes (e.g., triode reactors)
- 345.46 ..With magnetic field generating means for control of the etchant gas
- 345.47 ..Parallel plate electrodes
- 345.48 .With radio frequency (rf) antenna or inductive coil gas energizing means
- 345.49 ..With magnetic field generating means for control of the etchant gas
- 345.5 .With means for photochemical energization of a gas using ultraviolet, visible, or x-ray radiation
- 345.51 .With workpiece support
- 345.52 ..With means to heat the workpiece support
- 345.53 ..With means to cool the workpiece support
- 345.54 ..With means to move the workpiece inside the etching chamber
- 345.55 ...With means to cause rotary movement of the workpiece
- 346 **PLASTER BOARD MAKING APPARATUS**
- 347 .With surface deformation means
- 348 .With edge treatment means
- 349 **SURFACE BONDING MEANS AND/OR ASSEMBLY MEANS THEREFOR**
- 350 .Automatic and/or material-triggered control
- 351 ..Plural interrelated sensing means
- 352 ..To stop operation of complete machine
- 353 ..Of cutter
- 354 ...And separate means feeding cut pieces in sequence and applying to serially conveyed articles
- 355 ...Responsive to feed of article to which cut piece is applied
- 356 ..Of application of fluent material to work
- 357 ...By presence or absence of work to which applied
- 358 ..Of application of bonding pressure
- 359 ..Of temperature and/or motion of heat exchange means
- 360 ..Means responsive to weight or dimension
- 361 ..Of feed or motion of indefinite length work or transfer carrying tape
- 362 ..Of feed of articles to assembly station
- 363 ...Responsive to presence, absence, or condition of article to which applied
- 364 ....Sheet feeding
- 365 .With safety interlocks
- 366 .With timing means
- 367 .With electrical controls

368	..For starting or stopping machine operation	390	.With coating means for work (other than laminating adhesive)
378	..With testing, measuring, and/or indicating means	391	.Work-secured and/or work-guided
379	..With inspecting and/or illuminating means	392	..Pipe wrapping type
379.6	..With means applying wave energy or electrical energy directly to work	393	.With braiding or weaving means
379.7	..To an electrically conductive lamina or component incorporated into the work	394.1	.Tire body building type
379.8	..With means to assemble laminae or position them relative to each other	395	..Means delaminating protective liner from lamina
379.9	...With plural diverse heating means	396	..Multiple discrete building forms and/or means advancing a building form through multiple work stations
380.1	...With tube-forming means	397	..Means building tires from strands or narrow tapes
380.2	...With electrode or coil member contacting work	398	..Means operating on the bead portion of the tire
380.3	....Electrodes on opposing sides of smallest dimension of work	399	...Means trimming fabric adjacent bead
380.4	.....With means moving one electrode toward the other electrode	400	...Means folding carcass fabric about a bead
380.5	.....With means to change the configuration of a lamina, e.g., folding, deforming, etc.	401	....Inflatable bag type
380.6	..With electrode having a mechanical function; e.g., pressing, etc.	402	....Disc or roller type
380.7	..Cutting, tearing, or breaking function	403	...Means placing bead ring on tire carcass
380.8	..Shaping or deforming function; e.g., patterned electrode, etc.	404	..Solid tire building type
380.9	..With radiant heater not touching work	405.1	..With fabric or tread stock feeding means
381	.Chamber enclosing work during bonding and/or assembly	406	...Means selecting stock from multiple source
382	..Evacuated or fluid pressure chamber	406.2	...For transporting discrete ring-shaped lamina
383	..Means encasing separate nonadhered part between adhered laminae	406.4	..With cutting, heating, laminating, or shaping means upstream of assembling means
384	..With printing	406.6	....Stretching means
385	..Simultaneous with bonding	407	..Centerless core or off-center support of annular tire structure
386	...Printing member also bonds	408	..Relative traversing motion between rotating tire supporting structure and pressing or bending means
387	..Printing	409	...Compound traversing motion
388	..After bonding	410	....With changing direction of force of pressing or bending means with respect to the axis of rotation of the supporting structure (e.g., curved drum)
389	..Including cleaning, conditioning or renewing means for apparatus	411	....Pressing means manually advanced toward the axis or rotation of the supporting structure

412	...Resilient or deformable surface pressing or bending element	437	...With means forming web by calendering
413	...Plural sequential pressing or bending elements	438	...With means folding web longitudinally
414	..Building drums, per se	439	...Transversely of web
415	...Axially or widthwise adjustable or collapsible	440	....Reciprocating feed means for strand
416	...Resilient and/or inflatable core	441	..Means gathering strands or filaments only into indefinite length
417	...Collapsible	441.5	.Envelope sealing type
418	....Rack and pinion type actuator	442	..With stamp applying means
419	....Resilient spring actuated	442.1	..With bending or folding means
420	....Toggle linkage lever type actuator	442.2	..With feeding means
421	..Stitching elements, per se	442.3	...Reciprocating feed
421.2	..Tire chamber and means regulating interior casing pressure	442.4	..Work traversing type
421.4	..With means for folding lamina while on drum	443	.With bending, folding, winding, or wrapping means
421.6	..Tire support with pressing or heating means	444	..Pneumatic blast to bend work
421.8	..Ring-shaped lamina stretching means	445	..About preformed sphere
422	..Tire bead ring winding type	446	..Rotating mandrel or article
423	..Means assembling part within hole or aperture (telescoping)	447	...Means registering sheet with selected peripheral portion of rotating article
424	..Electric lamp or space discharge device envelope basing type	448	...Translating axis of rotation
425	..Longitudinally progressive helical winding means	449	....Rolling mandrel or article
426	..With means cutting wound body to form sheet or web	450	....Winding flexible web
427	...Strands secured to web	451	....Article rolls across sheet stack
428	..Forming and/or covering indefinite length article	452	.....By gravity
429	...Rotating core or mandrel	453	.....Belt feed
430	...By winding plural strands or webs	454	.....By gravity
431	....About circular section core or mandrel	455	.....Belt feed
432	....Plural discrete axially spaced winding means	456	....Axis translates in circular path
433	..Indefinite or running length flexible strand, rod, tube, or filament uniting	457	...Centerless core or mandrel
434	..Means applying transverse spacers to spaced parallel strands	458	...Means serially feeding mandrel or article to applying station
435	..Pile fabric making type	459	..For an indefinite or running length flexible web
436	..To indefinite or running length web	460	...Tire bead or endless belt covering type
		461	...Longitudinal bending
		462	....Corrugating
		463	...Plural sequential bending means
		464	....And means feeding discrete articles to web
		465	....Single web only
		466	....Tube-making type
		467	....And means uniting noncoextensive plural webs
		468	...Means bending to configuration of part to which secured

469	...Transverse withdrawal of shaping or shape-retaining elements	500	.With casting, plastic molding, or extruding means
470	...And means applying separate web to shaped web	501	..With means generating at least one self-sustaining web (e.g., film casting)
471	....While still on shape-retaining means	502	.Means joining flexible indefinite length or endless bodies end-to-end (e.g., film, tape, belt splicers)
472	.....Fluted roll-shape retainer	503	..Tube splicing type (e.g., inner tube)
473	.....Separate means holding web in flutes	504	..Moving web (flying splice or with web accumulating means)
474	...Pleating means	505	..Means applying adhesive tape to joint only
475	..To configuration of part to which secured	506	...With severing means for tape before application
476	...Plural discrete bending means, each acting on separate article	507	..Longitudinally moving web support moving web ends into association
477.1	...Plural, distinct, sequential bending or folding means	508	...With scraper or adhesive applying means
478	....Intersecting bend axis	509	..With scraper or adhesive applying means
479	....Means bending sheet over edges of planar part	510	.With cutting, punching, piercing, severing, or tearing
480	.....With separate member pressing bent sheet corner at axis intersection	511	..Plural severing means each acting on a different work piece
481	....Arcuate bending	512	..Severing followed by associating with part from same source
482	....Having intersecting axes of force	513	..Means making hole or aperture in part to be laminated
483	...Flexible sheet across through passage for work	514	...And securing separate part over hole or aperture
484	....Sheet applied to passage	515	..Cutting element simultaneously bonds (e.g., cut seaming)
485	....With additional separate smoothing means	516	..Means feeding plural workpieces to be joined
486	..Member travels along configured part	517	...Severing before bonding or assembling of parts
487	...Flexible bristle wiping surface	518	....Severing means or member secured thereto also bonds
488	....Bodily deformable pad type	519	....Delivering cut part to indefinite or running length web
489	....Opposed movable biased members	520	....Cutter also delivers cut piece
490	....Positively actuated to intermittently defeat bias	521	....Delivering cut part in sequence to serially conveyed articles
491	.....Cam defeats bias	522	...Cutting indefinite length web after assembly with discrete article
492	...By swinging folding member approaching part		
493	...Deformable pad		
494	.With stretching or tensioning means		
495	..By driven web feeding means		
496	...To transversely stretch or tension the web		
497	.With gas, vapor, or flame contact means for work		
498	.With work cooling means		
499	.With separate (nonpress) heating means for work		

523	..Work traversing type	552	....Means bringing articles into association with web
524	..With liquid applying means	553	....Discontinuous, spaced area, and/or patterned pressing
525	....Slitting and severing	554	....Webs of different width, longitudinally aligned
526	....Cutting after bonding	555	....Progressive continuous bonding press (e.g., roll couples)
527	..Fixed cutter	556	..Means bringing discrete articles into assembled relationship
528	..Stamp from multiple row sheet type	557	....Plural lines and/or separate means assembling separate sandwiches
529	..With means projecting fluid against work	558	....All articles from single source only
530	..Cutter actuated by or secured to bonding element	559	....At least three articles
531	..With liquid applicator	560	....At least two applied side by side to common base
532	....Common actuator for bonding and liquid applying means	561	.....Plural ranks
533	.....Liquid applied to web before cutting	562	.....Sheet form common base
534	.....Roller applicator	563	.....Stacked serially
535	..With means shaping, scarifying, or cleaning joining surface only	564	....Magazine stack directly contacting separate work
536	..Combined and/or convertible	565	....Magazine movable to work
537	..With bond interfering means (slip sheet, etc.)	566	....Means simultaneously conveying plural articles from a single source and serially presenting them to an assembly station
538	..With work feeding or handling means	567	....Turret or rotary drum-type conveyer
539	..For plural parts or plural areas of single part	568	.....For flexible sheets
540	..Lamina transferred to base from adhered flexible web or sheet type carrier	569	....Means separating articles from bulk source
541	....Discrete spaced laminae on adhered carrier	570	.....Stacked sheet source
542	.....Means serially presenting discrete base articles or separate portions of a single article	571	.....Rotary or pivoted picker
543	..Indefinite or running length work	572	.....Translating picker
544	....Means joining indefinite length work edge to edge	573	..Magazine stack directly contacting work
545	....Means applying adhesively secured tape to seam	574	..Work traversing type and/or means applying work to wall or static structure
546	....Means applying fluid adhesive to work edge	575	..With liquid applying means
547	....Means applying fluent adhesive or adhesive activator material between layers	576	..Grip or clamp for web end
548	.....At spaced areas	577	..Implement carried web supply
549	.....Plural indefinite length or running length workpieces	578	..With liquid adhesive or adhesive activator applying means
550	.....Fluid applied to nip between indefinite length webs	579	..With handle or handgrip
551	.....Fluid applied to plural workpieces	580	..Presses or press platen structures, per se
		580.1	..With sonic or ultrasonic means

580.2	...Specified structure of sonic or ultrasonic work contacting surface	906	<b>OFF-DRUM MANUFACTURE OF TIRE FABRIC OR PLY</b>
581	..Relieved or configured pressing face	907	.Including assembly of bias-cut fabric
582	...Rotary	908	<b>LAMINATING SHEET TO ENTIRE EDGE OF BLOCK AND BOTH ADJACENT OPPOSITE SURFACES; E.G., BOOKBINDING, ETC.</b>
583.1	..Heated		
583.2	...Impulse heating		
583.3	...With significantly flexible platen	909	<b>APPARATUS FOR APPLYING NEW TREAD TO USED TIRE CASING; E.G., RETREADING, RECAPPING, ETC.</b>
583.4	...Nonuniform heating		
583.5	...With endless belt	910	<b>BONDING TIRE CORD AND ELASTOMER: IMPROVED ADHESIVE SYSTEM</b>
583.6	...C-frame type		
583.7	...Electric heating	912	<b>DIFFERENTIAL ETCHING APPARATUS HAVING A VERTICAL TUBE REACTOR</b>
583.8	...Hinged platen		
583.9	...Electric heating	913	<b>DIFFERENTIAL ETCHING APPARATUS HAVING A HORIZONTAL TUBE REACTOR</b>
583.91	...Plural adjustable pressure points	914	<b>DIFFERENTIAL ETCHING APPARATUS INCLUDING PARTICULAR MATERIALS OF CONSTRUCTION</b>
750	<b>DELAMINATING MEANS</b>		
751	.Delaminating means responsive to feed or shape at delamination	915	<b>DIFFERENTIAL ETCHING APPARATUS INCLUDING FOCUS RING SURROUNDING A WAFER FOR PLASMA APPARATUS</b>
752	.Heating or cooling delaminating means (e.g., melting means, freezing means, etc.)		
753	..Electromagnetic radiation delaminating means (e.g., microwave, UV, IR, etc.)	916	<b>DIFFERENTIAL ETCHING APPARATUS INCLUDING CHAMBER CLEANING MEANS OR SHIELD FOR PREVENTING DEPOSITS</b>
754	.Vibrating delaminating means		
755	.Differential fluid pressure delaminating means	917	<b>DIFFERENTIAL ETCHING APPARATUS HAVING A BARREL REACTOR</b>
756	..Spraying delaminating means (e.g., atomizer, etc.)	918	<b>DELAMINATING PROCESSES ADAPTED FOR SPECIFIED PRODUCT (E.G., DELAMINATING MEDICAL SPECIMEN SLIDE, ETC.)</b>
757	...Air blasting delaminating means)		
758	..Vacuum delaminating means (e.g., vacuum chamber, etc.)	919	.Delaminating in preparation for post processing recycling step
759	.Delaminating roller means	920	..Textile delaminating in preparation for recycling (e.g. carpet, etc.)
760	..Roller pair delaminating means		
761	.Severing delaminating means (e.g., chisel, etc.)	921	..Delaminating container component in preparation for recycling (e.g., glass bottle, plastic bottle, etc.)
762	..Cutting delaminating means		
763	...Shearing delaminating means		
764	.Delaminating bending means	922	..Specified electronic component delaminating in preparation for recycling
765	..Poking delaminating means		
766	..Corner edge bending delaminating means	923	...Delaminating wire or optical fiber laminate (e.g., coaxial cable, optical cable, etc.)
767	.Means for delaminating from release surface		
598	<b>MISCELLANEOUS</b>	924	...Delaminating display screen (e.g., cathode-ray, LCD screen, etc.)
		925	...Delaminating display screen using sintering for delamination
	<b><u>CROSS-REFERENCE ART COLLECTIONS</u></b>		



- 926 ..Delaminating recording media (e.g., DVD, CD, HD, flash memory, etc.)
- 927 ..Delaminating vehicle component (e.g., brake pad, etc.)
- 928 ...Delaminating tire (e.g., tread from carcass, etc.)
- 929 .Delaminating component from building (e.g., wall paper, shingle, etc.)
- 930 .Semiconductive product delaminating (e.g., delaminating semiconductive wafer from underlayer, etc.)
- 931 ..Peeling away backing
- 932 ...With poking during delaminating (e.g., jabbing release sheet backing to remove wafer, etc.)
- 934 **APPARATUS HAVING DELAMINATING MEANS ADAPTED FOR DELAMINATING A SPECIFIED ARTICLE**
- 935 .Delaminating means in preparation for post consumer recycling
- 936 ..Means for delaminating container component in preparation for recycling (e.g., glass bottle, plastic bottle, etc.)
- 937 ..Means for delaminating specified electronic component in preparation for recycling
- 938 ...Means for delaminating record media for recycling (e.g., CD, DVD, HD, flash memory, etc.)
- 939 ..Means for delaminating vehicle component (e.g., tread from carcass, brake pad, etc.)
- 940 ..Means adapted for delaminating component from building (e.g., wall paper, shingle, etc.)
- 941 .Means for delaminating semiconductive product
- 942 ..With reorientation means
- 943 ..With poking delaminating means (e.g., jabbing means, etc.)

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

**METHODS (156/1)**

- FOR 100 .Delaminating, per se (156/344)
- FOR 101 **DELAMINATING APPARATUS (156/584)**

**DIGESTS**

- DIG 1 **LABELLING FLAT, ESSENTIALLY RIGID SURFACES (1/100)**
- DIG 2 .Affixing labels to one flat surface of articles; e.g., of packages, of flat bands (1/02)
- DIG 3 .Affixing labels; e.g., wrap-around labels, to two or more flat surfaces of a polyhedral article (1/04)
- DIG 4 ..Of a box; e.g., cigarette box (1/06)
- DIG 5 **LABELLING OTHER THAN FLAT SURFACES (3/00)**
- DIG 6 .Affixing labels to elongated objects; e.g., wires, cables, bars, tubes, (3/02)
- DIG 7 ..Applying bands or labels to cigars or cigarettes (3/04)
- DIG 8 .Affixing labels to short rigid containers (3/06)
- DIG 9 ..To container bodies (3/08)
- DIG 10 ...The container being positioned for labelling with its centerline horizontal (3/10)
- DIG 11 ....By rolling the labels onto cylindrical containers; e.g., bottles (3/12)
- DIG 12 ...The container being positioned for labelling with its centerline vertical (3/14)
- DIG 13 ....By rolling the labels onto cylindrical containers; e.g., bottles (3/16)
- DIG 14 ..To container necks (3/18)
- DIG 15 ..To bottle closures (3/20)

**FOREIGN ART COLLECTIONS**

- FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

- DIG 16 ...Affixing metal foil coverings (3/22)
- DIG 17 ...Affixing labels indicating original state of bottle snap or screw closure (3/24)
- DIG 18 .Affixing labels to nonrigid containers; e.g., bottles made of polyethylene, boxes to be inflated by internal air pressure prior to labelling (3/26)
- DIG 19 **LABELLING FABRICS OR COMPARABLE MATERIALS OR ARTICLES WITH DEFORMABLE SURFACE, E.G., PAPER, FABRIC ROLLS, STOCKINGS, SHOES (5/00)**
- DIG 20 .Using adhesives (5/02)
- DIG 21 ..Thermo-activatable adhesives (5/04)
- DIG 22 .Using staples (5/06)
- DIG 23 **AFFIXING TAGS (7/00)**
- DIG 24 **DETAILS OF LABELLING MACHINES OR APPARATUS (9/00)**
- DIG 25 .Devices for moving articles, e.g., containers, past labelling station (9/02)
- DIG 26 ..Having means for rotating the articles (9/04)
- DIG 27 .Devices for presenting articles in predetermined attitude or position at labelling station (9/06)
- DIG 28 .Label feeding (9/08)
- DIG 29 ..Label magazines (9/10)
- DIG 30 ..Removing separate labels from stacks (9/12)
- DIG 31 ...By vacuum (9/14)
- DIG 32 ...By wetting devices (9/16)
- DIG 33 ..Label feeding from strips; e.g., from rolls (9/18)
- DIG 34 .Gluing the labels or articles (9/20)
- DIG 35 ..By wetting (9/22)
- DIG 36 ..By heat (9/24)
- DIG 37 .Devices for applying labels (9/26)
- DIG 38 ..Air-blast devices (9/28)
- DIG 39 ..Rollers (9/30)
- DIG 40 ...Cooperating rollers between which articles and labels are fed (9/32)
- DIG 41 ..Flexible bands (9/34)
- DIG 42 ..Wipers; pressers (9/36)
- DIG 43 .Label cooling or drying (9/38)
- DIG 44 .Controls; safety devices (9/40)
- DIG 45 ..Label feed control (9/42)
- DIG 46 ...By special means responsive to marks on labels or articles (9/44)
- DIG 47 .Applying date marks, code marks, or the like to the label during labelling (9/46)
- DIG 48 **MANUALLY CONTROLLED OR MANUALLY OPERABLE LABEL DISPENSERS; E.G., MODIFIED FOR THE APPLICATION OF LABELS TO ARTICLES (11/00)**
- DIG 49 .Having printing equipment (11/02)
- DIG 50 .Having means for moistening the labels (11/04)
- DIG 51 .Having means for heating thermoactivatable labels (11/06)

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

Generated by Data Control Division

<u>New Classification</u>	<u>Number of ORs</u>	<u>Source Classification</u>	<u>Number of ORs</u>
156/247	1	156/344	323
	1	156/584	312
156/325	1	156/344	323
156/701	5	156/584	312
	85	156/344	323
156/702	7	156/344	323
156/703	3	156/344	323
156/704	9	156/344	323
156/705	1	156/344	323
156/706	6	156/344	323
	14	156/344	323
156/707	6	156/344	323
	13	156/344	323
156/708	1	156/584	312
	3	156/344	323
156/709	1	156/584	312
	13	156/344	323
156/710	5	156/344	323
156/711	4	156/344	323
	11	156/344	323
156/712	6	156/344	323
156/714	4	156/584	312
	6	156/584	312
	32	156/344	323
	36	156/344	323
156/715	7	156/344	323
156/716	12	156/344	323
156/717	17	156/344	323
156/718	7	156/584	312
	18	156/344	323
156/719	1	156/584	312
	11	156/344	323
156/753	1	156/584	312
156/754	1	156/584	312
156/758	2	156/584	312
156/760	1	156/584	312
156/764	4	156/584	312
156/765	1	156/584	312
156/767	1	156/584	312
427/154	1	156/344	323
438/455	1	156/344	323
451/289	1	156/344	323

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DISPOSITION CLASSIFICATION(S) OF PATENTS  
FROM ABOLISHED SUBCLASSES REPORT

Generated by Data Control Division

<u>Source Classification</u>	<u>Number of ORs</u>	<u>New Classification</u>	<u>Number of ORs</u>
156/344	323	156/714	32
		156/715	7
		156/704	9
		156/711	11
		156/705	1
		156/714	36
		156/711	4
		156/247	1
		438/455	1
		156/710	5
		156/703	3
		156/716	12
156/584	312	156/767	1
156/344	323	451/289	1
		156/325	1
		156/712	6
156/584	312	156/701	5
		156/709	1
156/344	323	156/709	13
		156/718	18
		156/708	3
156/584	312	156/719	1
		156/760	1
		156/754	1
		156/708	1
		156/765	1
156/344	323	156/707	13
156/584	312	156/714	4
		156/718	7
156/344	323	156/719	11
		156/706	6
		156/707	6
		427/154	1
156/584	312	156/247	1
156/344	323	156/706	14
		156/701	85
		156/702	7
		156/717	17
156/584	312	156/753	1
		156/758	2
		156/714	6
		156/764	4

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

<u>Class</u>	<u>USPC</u> <u>Subclass</u>	<u>Subclass</u>	<u>IPC</u> <u>Subclass</u>	<u>Notation</u>
156	701-719		B29C	63/00
	750-767		B29C	63/00

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D. CHANGES TO THE DEFINITIONS

CLASS 24 – BUCKLES, BUTTONS, CLASPS, ETC.

Definitions Modified:

Subclass 455: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, particularly subclass 66 for a method of manufacturing an adhesively bonded clasp \*, clip \*, or support-clamp \*.

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D. CHANGES TO THE DEFINITIONS

CLASS 29 – METAL WORKING

Definitions Modified:

Subclass 403.3: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 701-719 for a delaminating process, per se, and subclasses 918-933 for a delaminating process adapted to specified products, per se; subclasses 750-767 for delaminating means, per se, and subclasses 934-944 for a delaminating means adapted to specified products, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

Subclass 426.1: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 701-719 for a delaminating process, per se, and subclasses 918-933 for a delaminating process adapted to specified products, per se; subclasses 750-767 for delaminating means, per se, and subclasses 934-944 for a delaminating means adapted to specified products, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

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D. CHANGES TO THE DEFINITIONS

Subclass 900: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclass 273.1 for surface bonding processes using electrostatic charge and subclass 712 for delaminating processes using electromagnetic force, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity; subclasses 379.6-380.9 for bonding apparatus having means directing electrical energy directly to work and subclass 753 for electromagnetic delaminating means, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.



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D. CHANGES TO THE DEFINITIONS

CLASS 156 - ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL  
MANUFACTURE

Subclasses Abolished:

344 and 584

Definitions Modified:

Class Definition: In Section III, Subclass References to the Current Class, under See or  
Search This Class, Subclass

Delete:

The entire reference to subclass 344.

Delete:

The entire reference to subclass 584.

Insert:

701 through 719, for a delaminating process, per se.

750 through 767, for apparatus for delaminating, per se.

Subclass 99: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 344.

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D. CHANGES TO THE DEFINITIONSInsert:

701 through 719, for processes of delaminating, per se, not combined with a laminating procedure.

924 and 925, for processes of delaminating display screens, per se, not combined with laminating.

Subclass 152: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 344.

Insert:

701 through 719, for delaminating processes, per se.

712, for delaminating processes, per se, using heat combined with electromagnetic radiation.

Subclass 168: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 344.

Insert:

701 through 719, for processes of delaminating, per se.

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D. CHANGES TO THE DEFINITIONS

Subclass 230: Under See or Search This Class, Subclass

Insert:

719, for a delaminating from a release surface process, per se.

933, for processes of delaminating a label from a release surface.

Subclass 247: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 344.

Delete:

The entire reference to subclass 584.

Insert:

701 through 719, for a delaminating process, per se.

719, for processes of delaminating from a release surface.

750 through 767, for delaminating apparatus, per se.

Subclass 394.1: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 584.

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D. CHANGES TO THE DEFINITIONSInsert:

750 through 767, for delaminating apparatus, per se.

939, for delaminating apparatus having means adapted for delaminating, per se, a vehicle component.

.

Subclass 395: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 584.

Insert:

750 through 767, for delaminating apparatus, per se.

922, for delaminating apparatus, per se, not in combination with tire building apparatus.

Subclass 540: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 584.

Insert:

767, for apparatus delaminating from a release surface, per se.

944, for apparatus delaminating a label from release carrier, per se.

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D. CHANGES TO THE DEFINITIONS

Subclass 909: Under See or Search This Class, Subclass

Delete:

The entire reference to subclass 584.

Insert:

750 through 767, for delaminating apparatus, per se.

939, for apparatus delaminating, per se, a vehicle component not in combination with means to apply new tread or tire building apparatus.

Definitions Modified:**701 Delaminating, per se; i.e., separating at bonding face:**

This subclass is indented under subclass 1. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face, per se, where the layer identity is retained during separation.

- (1) Note. Processes for the separation of laminae, in which a lamina is destroyed, are generally classified in that class providing for the process, per se. Thus, for example, destroying a lamina by abrading will be found in
- (2) Note. Included herein, are processes of delaminating, per se, where no apparent reshaping takes place.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

230 through 242 and 247-249, for laminating processes combined with delamination.

750 through 767, for delaminating means, per se.

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D. CHANGES TO THE DEFINITIONS

- 918 through 933, for a delaminating process adapted to specified products, per se.
- 934 through 944, for a delaminating means adapted to specified products, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

## SEE OR SEARCH CLASS:

- 29, Metal Working, subclasses 426.1-525.14 for disassembling a final relationship of parts; subclass 603.02 for disassembling magnetic recording heads; subclasses 402.01-402.18 for reclaiming, renewing or repairing articles for reuse.
- 83, Cutting, subclasses 13 to 56 for processes of cutting into a layer body.
- 228, Metal Fusion Bonding, subclass 125 for the method of removing applied solder.
- 264, Plastic and Nonmetallic Article Shaping or Treating: Processes, subclasses 36.1-37.33 for related process for repairing, recycling or reclaiming where shaping or reshaping takes place and subclasses 334-336 for a process of ejecting or stripping in a plastic article shaping process.
- 451, Abrading, subclasses 28-63 for processes of grinding a portion of an article.
- 427, Coating Processes, subclass 560 for coating processes with sonic or ultrasonic removal of a portion of the coating and subclass 198 for coating with particles or fibers combined with removal of a coating portion.
- 470, Threaded, Headed Fastener, or Washer Making: Process and Apparatus, subclasses 2-17 for methods for assembling and disassembling a bolt with a nut or washer.

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D. CHANGES TO THE DEFINITIONS**702 Delaminating process responsive to feed or shape at delamination:**

This subclass is indented under subclass 701. Processes separating an adhered layer or portion thereof from another at a bonding face where the layer identity is retained during separation, in which layer separation is in response to feed or shape material being delaminated.

- (1) Note. The condition sensed must be something other than the normal cyclical operation of delamination means. The normal cyclical operation of the machine may be maintained or controlled by the presence of work at the work station.
- (2) Note. A change in the normal cycle of operation caused by the intervention of an attendant would not be included in this subclass.
- (3) Note. The condition sensed may be a condition or property of the work, apparatus, or any change in environment of the apparatus, which sensing means stops, starts or otherwise modifies operation of the apparatus.
- (4) Note. Mere sensing means alone to determine a condition or change thereof without causing a control operation is not sufficient for placement in this subclass. A control function must be effected when the sensed condition or change of condition occurs for complete automatic control.

## SEE OR SEARCH THIS CLASS, SUBCLASS

- 350 through 364, for automatic or material triggered lamination control means.
- 365, for apparatus including safety interlocks.
- 367, for lamination devices including an electrical control means.
- 378, for lamination means performing a sensing function causing a signal or indicating means to be actuated rather than a control operation for the apparatus.

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751, for a delaminating means responsive, per se, to feed or shape at delamination.

918 through 944 for delaminating processes and means adapted to specified products, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

**703 Using solvent during delaminating (e.g., water dissolving adhesive at bonding face during delamination, etc.):**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity during separation where the process includes using solvent during delamination; e.g., dissolving adhesive using water, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

155, for lamination processing dissolving transitory material.

SEE OR SEARCH CLASS:

101, Printing, subclass 472 for printing processes utilizing a solvent to dissolve a portion of a print or design.

**704 Using specified organic delamination solvent:**

This subclass is indented under subclass 703. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, using solvent during delamination where the solvent used is specified as an organic chemical compound.

SEE OR SEARCH THIS CLASS, SUBCLASS:

236, for transfer lamination processes using solvent.

SEE OR SEARCH CLASS:

510, Cleaning Compositions for Solid Surfaces, Auxiliary Compositions Therefor, or Processes of Preparing the Compositions, subclass 432 for processes of cleaning using an organic solvent.



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D. CHANGES TO THE DEFINITIONS**705 Using vibration during delaminating:**

This subclass is indented under subclass 701. Processes separating an adhered layer or portion thereof from another layer at a bonding faces while retaining layer identity where the process includes using vibration during delamination.

SEE OR SEARCH THIS CLASS, SUBCLASS:

73.1, for lamination with sonic or ultrasonic cutting.

73.6, for lamination processes using vibration.

654, for vibrating delaminating apparatus, per se.

SEE OR SEARCH CLASS:

427, Coating Processes, subclass 232 for coating processes with removing excess coating from hollow article.

**706 Using direct fluid current against work during delaminating:**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity by where the process includes using direct fluid pressure against work during delamination.

SEE OR SEARCH THIS CLASS, SUBCLASS:

105, for lamination with fluid applied directly to work.

156, 244.14 and 244.21, for lamination with pressure to prevent collapse of a structure during assembly.

285, for lamination with direct application of fluid pressure.

SEE OR SEARCH CLASS:

29, Metal Working, subclass 252 for means to assemble or disassemble including means to separate parts by fluid expansion.

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- 198, Conveyors: Power-Driven, subclasses 428, 438, and 493 for a power-driven conveyor combined with means for impinging fluid on the conveyed load.
- 226, Advancing Material of Indeterminate Length, subclasses 97.1 to 97.4 for means to advance material by fluid current.
- 264, Plastic and Nonmetallic Article Shaping or Treating: Processes, subclasses 500 to 574 for a method of permanently shaping particulate or nonmetallic material by means of direct application of fluid pressure differential.

**707 Using vacuum directly against work during delaminating:**

This subclass is indented under subclass 706. Processes directed to separating an adhered layer or portion thereof from another layer at their bonding faces while retaining layer identity, where the process includes directly applying vacuum against work during delamination.

- (1) Note. This subclass requires pressure less than atmospheric for delamination.

**SEE OR SEARCH THIS CLASS, SUBCLASS:**

- 104, for the evacuation of air during the making of optically transparent glass sandwiches.
- 156, for lamination with pressure to prevent collapse of hollow structure during assembly.
- 285 through 287, for lamination with direct application of vacuum or fluid pressure during bonding step.

**SEE OR SEARCH CLASS:**

- 100, Presses, subclass 90 for presses with means to remove air from material while being pressed.
- 264, Plastic and Nonmetallic Article Shaping or Treating: Processes, subclasses 101 and 102 for methods of permanently shaping particulate or nonmetallic material by vacuum treatment.

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D. CHANGES TO THE DEFINITIONS**708 Using air blast directly against work during delaminating:**

This subclass is indented under subclass 706. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity where the process includes applying a blast of air directed against work during separation.

## SEE OR SEARCH CLASS:

- 15, Brushing, scrubbing, and general cleaning, subclass 300.1 for cleaning using air blast to remove unwanted foreign materials.
- 30, Cutlery, subclasses 124-127 for cutlery combined with air blast for removal of severed material.
- 83, Cutting, subclass 53 cutting by direct application of fluent pressure.

**709 Changing dimension during delaminating (e.g., crushing, expanding, warping, etc.):**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, where the process includes changing a dimension of work during delamination e.g., crushing, expanding, warping, etc.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 83, for lamination processes with swelling.
- 84 through 86, for lamination processes with shrinking.
- 147, for lamination processes inflating a hollow core.
- 156, for lamination processes fluid pressure used to prevent collapse of a hollow core.
- 229, for lamination processes distorting a workpiece by stretching.

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## SEE OR SEARCH CLASS:

- 65, Glass Manufacturing, subclass 25.4 for glass shaping processes using parting layer where the glass is distorted.
- 83, Cutting, subclasses 17 and 18 for cutting with distortion of work.
- 408, Cutting by Use of Rotating Axially Moving Tool, subclass 19 for cutting, with rotating, temporary deforming work.

**710 Using shrinking or swelling agent during delaminating:**

This subclass is indented under subclass 709. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity dimensional change of work by using a shrinking or swelling agent for the work during delaminating.

- (1) Note. The shrinking or swelling must be effected by, for example, absorption of solvent by the material of the lamina. Merely subjecting a lamina to an external force such as a compressive force in one direction to cause it to elongate in another direction is not subject matter for this subclass, nor is subjecting matter for this subclass, nor is subjecting the lamina to tension to cause it to elongate. Inflating a hollow article is excluded when laminae material do not swell.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 83, for lamination processes with swelling and subclasses 84-86 for lamination processes with shrinking.

## SEE OR SEARCH CLASS:

- 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclasses 114, 130.1, and 175 for processes of treating textiles with chemicals; e.g., swelling agents.
- 162, Paper Making and Fiber Liberation, subclass 187 for processes of hydration or gelatinization combined with a paper making operation.

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D. CHANGES TO THE DEFINITIONS**711 Temperature change for delamination (e.g., heating during delaminating, etc.):**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity where the process includes effecting a temperature change during delamination; e.g., heating during delamination, etc.

**712 Electromagnetic radiation applied to work for delamination (e.g., microwave, UV, IR, etc.):**

This subclass is indented under subclass 711. Processes directed to separating an adhered layer or portion thereof from another layer or portion at a bonding face while retaining layer identity, using electromagnetic wave energy (e.g., microwave, UV, IR, etc.) during delamination.

SEE OR SEARCH THIS CLASS, SUBCLASS:

272.2 through 275.7, for lamination processes using direct application of electromagnetic energy.

SEE OR SEARCH CLASS:

29, Metal Working, subclass 900 for a method and apparatus for assembly by the use of electrostatic attraction. See the Notes therein and the See or Search portions for assembly processes using of electrostatic forces.

427, Coating Processes, subclasses 458-486 for coating processes utilizing electrical or wave energy, and see the Notes thereto and the See or Search portions thereof for coating processes using of electrostatic forces.

264, Plastic and Nonmetallic Article Shaping or Treating: Processes, subclasses 402-496 for molding or deforming processes applying electrical or wave energy to the work.

**713 Sintering for delamination:**

This subclass is indented under subclass 711. Processes directed to separating an adhered layer or portion thereof from another layer with layer identity is retained during separation, where the process is specified as using sintering during delaminating; i.e., heating near but not below screen melting point.

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SEE OR SEARCH THIS CLASS, SUBCLASS:

89.11 through 89.28, for lamination processes vitrifying ceramic material.

918 through 933, for a delaminating process adapted to specified products, per se.

934 through 944, for a delaminating means adapted to specified products, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

**714 Gripping and pulling work apart during delaminating:**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, where the process includes separating by gripping and pulling work apart during the delaminating step.

**715 Using roller for delamination (e.g., roller pairs operating at differing speeds or directions, etc.):**

This subclass is indented under subclass 714. Processes separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, in which a roller causes separation e.g., roller pairs at differing speeds during delamination, etc.

**716 With poking during delaminating (e.g., jabbing, etc.):**

This subclass is indented under subclass 714. Processes separating an adhered layer or portion thereof from another layer at a bonding face or a portion thereof while retaining layer identity, where bending also includes poking for separation; e.g., jabbing, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

247 through 249, for peeling with lamination.

918 through 933, for a delaminating process adapted to specified products, per se.

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934 through 944, for a delaminating means adapted to specified products, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

## SEE OR SEARCH CLASS:

173, Tool Driving or Impacting, subclass 164 for a means to drive a tool about an axis including means to hold and relatively rotate sections of tool shaft.

144, Woodworking, subclass 207 for processes poking to peel bark from wood.

**717 Piercing layer during delaminating (e.g., cutting, etc.):**

This subclass is indented under subclass 716. Processes of separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, including piercing the work during delamination; e.g., cutting, etc.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

101, for lamination processes with cutting.

142, for with lamination processes with V-cutting.

159, for lamination processes with cutting with joining ends.

193, for lamination processes with cutting of wound body.

932, for a delaminating process with poking adapted to specified semiconductive products, per se,

943, for a delaminating poking means adapted to specified semiconductive products separating an adhered layer or portion from another layer at a bonding face while retaining layer identity and identity as a semiconductive product.

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D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH CLASS:

83, Cutting, subclasses 13 to 56 for severing processes for material removal.

**718 With shearing during delaminating:**

This subclass is indented under subclass 714. Processes of separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, including shearing during separating for delamination; i.e., applying a shear force between delaminating layers.

SEE OR SEARCH CLASS:

28, Textile Manufacture, subclass 226 for shearing textiles to remove undesired protruding material.

**719 Delaminating from release surface:**

This subclass is indented under subclass 701. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity during separation, where the process is specified as adapted for delaminating a component or portion thereof from a releasing surface.

SEE OR SEARCH THIS CLASS, SUBCLASS:

230 through 241, for lamination by direct contact transfer from carrier to base.

247 through 249, for lamination using a temporary planar support.

289, for lamination using a release material.

933, for a delaminating, per se, from a releasing surface adapted to specified label products.



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944, for means delaminating, per se, from a releasing surface adapted to specified label products.

## SEE OR SEARCH CLASS:

40, Card, Picture, or Sign Exhibiting, subclasses 299.01 and 675 for label on release sheet article.

264, Plastic and Nonmetal Article Shaping or Treating: Processes, subclass 2.3 molding processes using a release surface and subclasses 636-637 for casting processes against release surface.

283, Printed Matter, subclass 81 for a printed label on a release sheet.

**750 Delaminating means:**

This subclass is indented under the class definition. Apparatus having means positively separating an adhered layer or portion thereof out of bonded relationship at a bonded face with the layer identity retained during separation.

(1) Note. Included in this subclass are means for apply a separating force; destruction of a bond is not sufficient for this subclass, being provided for in the classes that detail the operation, per se.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

510, for cutting device combined with laminating means.

701 through to 719, for delaminating processes, per se.

918 through 933, for a delaminating process adapted to specified products, per se.

934 through 944, for a delaminating means adapted to specified products, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

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## SEE OR SEARCH CLASS:

- 29, Metal Working, subclasses 700-283.5 for means to assemble or disassemble a work piece having means including means to engage at least one work part and force that work part to move out of intimate engagement with another work part to which it has previously been secured at other than a nonmetallic adhered bonded joint.
- 81, Tools, subclass 3.7 for a device for prying apart an assembly.
- 83, Cutting, subclasses 651-858 for disassembly apparatus having means to cut through thickness.
- 228, Metal Fusion Bonding, subclass 19 for apparatus joining metallic work parts by a metallurgical bond.
- 269, Work Holders, for a device which holds plural parts in desired spatial relationship Class 269 is the residual locus for a device for clamping, supporting, or holding an article (or articles) in position to be operated on or treated. See section VII under the class definition of Class 269.
- 414, Material or Article Handling, subclasses 788 to 143.2 for apparatus for assembling articles in a particular relationship wherein the assembling comprises or facilitates handling rather than the production of a final product.
- 425, Plastic Article or Earthenware Shaping or Treating: Apparatus, subclass 48 for a curing bag remover in a tire vulcanizing apparatus, subclasses 436-446 for a shaping surface including product release or removal means, especially subclass 438 for a core remover.
- 470, Threaded, Headed Fastener, or Washer Making: Process and Apparatus, subclasses 48-56 for apparatuses for assembling or disassembling a bolt with a nut or washer.

**751 Delaminating means responsive to feed or shape at delamination:**

This subclass is indented under subclass 750. Apparatus having means positively separating an adhered layer or portion thereof out of bonded relationship at a bonding face, with layer identity retained during separation, in direct response to work feed or shape of work at the delamination means.

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- (1) Note. The condition sensed must be something other than the normal cyclical operation of the delamination means. The normal cyclical operation of the machine may be maintained or controlled by the presence of work at the work station. A change in the normal cycle of operation caused by the intervention of an attendant would not be included in this subclass.
- (2) Note. The condition sensed may be a condition or property of the work, apparatus, or any change in the environment of the apparatus, which sensing means stops, starts or otherwise modifies the operation of the apparatus.
- (3) Note. Mere sensing means alone to determine a condition or change thereof without causing a control operation is not sufficient for placement in this subclass. A control function of the apparatus must be effected when the sensed condition or change of condition occurs for complete automatic control.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 350 through 364, for automatic or materially triggered laminating means.
- 365, for laminating apparatus including safety interlock means.
- 367, for laminating apparatus including electrical control means.
- 378, for laminating apparatus means including a sensing function and in response thereto cause a signal or indicating means.
- 702, for delamination processes responsive to feed or shape at delamination.

**752 Heating or cooling delaminating means (e.g., melting means, freezing means, etc.):**

This subclass is indented under subclass 750. Apparatus having means for separating at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which includes delaminating means for heating or cooling work during delamination.

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## SEE OR SEARCH CLASS:

- 83, Cutting, subclass 170 for a cutting machine having means to heat the cutting tool or the work.
- 100, Presses, subclasses 92-340 for a heated press.
- 219, Electric Heating, subclasses 600-677 for induction heating devices and subclasses 200 to 270 for radiant heating devices.

**753 Electromagnetic radiation delaminating means (e.g., microwave, UV, IR, etc.):**

This subclass is indented under subclass 752. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at their bonding faces with the layer identity retained during separation which includes delaminating means to treat work with electromagnetic radiation; e.g., microwave, UV, IR, etc..

- (1) Note. The energy must directly contact and treat the work in the form of waves, rather than be converted to some other form of energy and then be directed against the work. Thus, separate resistance heater and applying the generated heat to the work by conduction is excluded.
- (2) Note. Merely heating of work by conduction or convection is not wave energy for the purpose of this subclass.
- (3) Note. The energy may be applied to the work, for example, in the form of infrared rays, X-rays, a magnetic field, etc.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 272.2 through 275.7, for lamination processes involving the direct application of electrical or wave energy.
- 379.6 through 380.6, for laminating with means for direct application of electromagnetic energy.

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- 580.1 through 582, for lamination apparatus having means to treat the work with sonic or ultrasonic waves or vibrations.
- 712, for delamination processes treating work with electromagnetic radiation for delamination.
- 705, for delamination processes treating work with vibration.

## SEE OR SEARCH CLASS:

- 29, Metal Working, subclass 900 for a method of, or apparatus for, assembly by the use of electrostatic attraction. See the Notes and the See or Search portions for assembly processes and apparatus using of electrostatic forces.
- 118, Coating Apparatus, subclasses 620-639 for coating apparatus having means to apply electrical or wave energy, and see the notes thereto for the locus of other patents relating to this art.
- 425, Plastic Article or Earthenware Shaping or Treating: Apparatus, subclasses 174-178 for molding or deforming machines having means for applying electrical or wave energy to the work.

**754 Vibrating delaminating means:**

This subclass is indented under subclass 750. Apparatus having means for separating a specific material worked on at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which include means to vibrate work during delaminating.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 73.6, for vibrating treatment during lamination.
- 705, for processes of vibrating during delamination.

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## SEE OR SEARCH CLASS:

- 118, Coating Apparatus, subclass 57 for coating means with vibrating means to remove excess coating.
- 221, Article Dispensing, subclasses 200-205 for dispensing means with means to vibrate for facilitating passage of articles toward a discharge means.
- 222, Dispensing, subclasses 161-248 for agitation means for discharging contents from a chamber.

**755 Differential fluid pressure delaminating means:**

This subclass is indented under subclass 750. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation which has means apply fluid pressure to the work for delamination; e.g., vacuum chamber, etc.

**756 Spraying delaminating means (e.g., atomizer, etc.):**

This subclass is indented under subclass 755. Apparatus having means for separating at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which means has spraying means for delamination such as a fluid atomizer, etc.

**757 Air blasting delaminating means:**

This subclass is indented under subclass 756. Apparatus having means for separating at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which includes air blast delamination means.

## SEE OR SEARCH CLASS:

- 30, Cutlery, subclasses 124 to 127 for cutlery combined with air blast for removal of severed material.

**758 Vacuum delaminating means (e.g., vacuum chamber, etc.):**

This subclass is indented under subclass 755. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at

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their bonding faces with the layer identity retained during separation which includes vacuum suction delamination means.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 104, for the evacuation of air during the making of optically transparent glass sandwiches.
- 285 through 287, for lamination with direct application of vacuum or fluid pressure during bonding step.
- 707, for delaminating processes using vacuum during delamination.

SEE OR SEARCH CLASS:

- 100, Presses, subclass 90 for presses with means to remove air from material while being pressed
- 118, Coating Apparatus, subclass 21 for apparatus with coating means also having air blast to remove or extend coating.

**759 Delaminating roller means:**

This subclass is indented under subclass 750. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at their bonding faces with the layer identity retained during separation which means includes roller means to cause delamination.

**760 Roller pair delaminating means:**

This subclass is indented under subclass 759. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at their bonding faces with the layer identity retained during separation which means includes a delaminating roller pair.

**761 Severing delaminating means (e.g., chisel, etc.):**

This subclass is indented under subclass 750. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at their bonding faces with the layer identity retained during separation which means includes a chiseling or cutting delaminating means.

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- (1) Note. This subclass provides for a blade acting along the plane of the bond to force or wedge the laminae apart, where the blade is free-floating to follow a plane of weakness between layers.

SEE OR SEARCH THIS CLASS, SUBCLASS:

510, for lamination means with means for cutting or piercing work.

**762 Cutting delaminating means:**

This subclass is indented under subclass 761. Apparatus having means for separating at least one adhered layer or portion thereof from another layer along its bonding face in with the layer identity retained during separation which means includes cutting delaminating means.

SEE OR SEARCH CLASS:

83, Cutting, subclass 176 for cutting means with means to deform work.

**763 Shearing delaminating means:**

This subclass is indented under subclass 762. Apparatus having means for separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity, including cutting means in the form of a shear; i.e., the cutting delaminating means move in substantial contact.

SEE OR SEARCH CLASS:

7, Compound Tools, subclass 134 for shearing tools, per se.

30, Cutlery, subclass 43 for cooperating shearing blades.

**764 Delaminating bending means:**

This subclass is indented under subclass 750. Apparatus having means for separating at least one adhered layer or portion thereof from another layer along its bonding face with the layer identity retained during separation which means has bending delaminating means.



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SEE OR SEARCH CLASS:

226, Advancing Material of Indeterminate Length, subclass 149 for means to grip advancing materials.

**765 Poking delaminating means:**

This subclass is indented under subclass 764. Apparatus having means for separating at least one adhered layer or portion thereof from another layer along its bonding face with the layer identity retained during separation which means have means to poke to cause delamination.

SEE OR SEARCH THIS CLASS, SUBCLASS:

943, for delamination poking means adopted for delamination of a semiconductive product while retaining the identity of the semiconductive product.

**766 Corner edge bending delaminating means:**

This subclass is indented under subclass 764. Apparatus having means for separating at least one adhered layer or portion thereof from another layer along its bonding face with the layer identity retained during separation which means have corner edge bending delaminating means.

(1) Note. Part either to move that part away from one location to another or to secure the work part in a position during corner bending delamination.

SEE OR SEARCH THIS CLASS, SUBCLASS:

480, for laminating means with corner bending.

**767 Means for delaminating from release surface:**

This subclass is indented under subclass 750. Apparatus having means for separating an adhered layer or portion thereof from another layer with the layer identity retained during separation which means are expressly adapted for delaminating from a specific releasable carrier; e.g., label on a carrier, etc.

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## SEE OR SEARCH THIS CLASS, SUBCLASS:

- 230 through 242, for methods of surface bonding involving direct contact transfer of adhered lamina from a carrier to the base lamina and especially subclass 238 where the carrier is a running or continuous flexible web.
- 540 through 542, for laminating means with lamina transfer means from a carrier sheet.
- 719, for delaminating from a releasing surface, per se.
- 933, for delaminating processes adopted for delaminating a label from a releasing carrier sheet, per se.
- 944, for delaminating means adopted for delaminating a label from a releasing carrier sheet, per se.

## SEE OR SEARCH CLASS:

- 101, Printing, appropriate subclasses for transfer printing devices wherein a printing die is used to cause direct transfer of a portion of a lamina carried on a flexible sheet. In Class 101 may be found, for example gold leaf printing devices in which the leaf is directly transferred from a carrier to the article utilizing a die stamp acting on the back of the flexible sheet.
- 221, Article Dispensing, subclass 73 for dispensing articles by stripping off adhered articles from a surface.
- 226, Advancing Material of Indeterminate Length, for devices, per se, for feeding a running or indefinite length work and see especially the notes thereto for other devices having similar means
- 242, Winding, Tensioning, or Guiding, subclass 163 for a housed strand package with strand guide means by means of which the strand is delivered through a mass.

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- 400, Typewriting Machines, subclass 118.1 for a typewriter that applies gold leaf carrier and subclass 696 for a typewriter wherein an error is corrected by an adhesive ribbon.

**CROSS REFERENCE ART COLLECTIONS****918 DELAMINATING PROCESSES ADAPTED FOR SPECIFIED PRODUCT (E.G., DELAMINATING MEDICAL SPECIMEN SLIDE, ETC.):**

This cross-reference art collection is indented under the class definition. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face with layer identity retained during separation, where the process is adopted for delaminating a specific identified product.

- (1) Note. Included in this subclass are delaminating processes expressly adopted to delaminate part of a clearly identified specific item.

**919 Delaminating processes in preparation for post processing recycling step:**

This cross-reference art collection is indented under cross-reference art collection 918. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity during separation, specified as adopted for identified process of layer or portion there recycling after use.

- (1) Note. Recycling may include recirculation of all or part of any layer substance.

**SEE OR SEARCH CLASS:**

- 162, Paper Making and Fiber Liberation, subclass 46 for processes of recycling paper making fluid.
- 205, Electrolysis: Compositions Used Therein, and Methods of Producing, subclass 349 for processes of production of electrical cell with recycling.
- 429, Chemistry: Electrical Current Producing Apparatus, Product, and Processes, subclass 17 for chemical reaction processes with reactant recycling.

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D. CHANGES TO THE DEFINITIONS**920 Textile delaminating in preparation for recycling (e.g. carpet, etc.):**

This cross-reference art collection is indented under cross-reference art collection 919. Processes directed to separating an adhered layer article or portion thereof at a bonding layer while retaining layer identity during separation specified for recycling where a layer is textile (e.g., carpeting, etc.).

## SEE OR SEARCH CLASS:

- 162, Paper Making and Fiber Liberation, subclasses 29-46 for paper manufacturing processes with recycling.
- 229, Envelope, Wrappers, and Paperboard Boxes, subclass 942 for paper box manufacture processes with recycling.
- 264, Plastic and Nonmetal Article Shaping or Treating Processes, subclasses 36.1-36.22 for plastic molding processes with recycling.

**921 Delaminating container component in preparation for recycling (e.g., glass bottle, plastic bottle, etc.):**

This cross-reference art collection is indented under cross-reference art collection 919. Processes directed to recycling by separating an adhered layer article or portion thereof from another layer at a bonding face while retaining layer identity during separation specified for recycling where the article is a plastic container (e.g., plastic bottle container recycling, etc.).

## SEE OR SEARCH CLASS:

- 264, Plastic and Nonmetal Article Shaping or Treating Processes, subclasses 37.1-7.33 for plastic molding processes including a step of recycling plastic materials.

**922 Specified electronic component delaminating in preparation for recycling:**

This cross-reference art collection is indented under cross-reference art collection 919. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face with layer identity retained during separation, where the process is specified as adapted for delaminating a specified electronic product component.

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D. CHANGES TO THE DEFINITIONS**923 Delaminating wire or optical fiber laminate (e.g., coaxial cable, optical cable, etc.):**

This cross-reference art collection is indented under cross-reference art collection 922. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face with layer identity is retained during separation, where the process is specified as adapted for delaminating electronic wire or optical fiber laminate (e.g., coaxial cable, optical cable, etc.).

**924 Delaminating a display screen (e.g., cathode-ray, LCD screen, etc.):**

This cross-reference art collection is indented under cross-reference art collection 922. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face with layer identity retained during separation, where the process is specified as adapted for delaminating electronic product display screen, such as cathode-ray, LCD screen, etc.

**925 Delaminating display screen using sintering for delamination:**

This cross-reference art collection is indented under cross-reference art collection 924. Processes directed to separating an adhered layer or portion thereof from another layer with layer identity is retained during separation, where the process is specified as using sintering during delaminating a display screen; i.e., heating near but not below screen melting point.

**926 Delaminating recording media (e.g., DVD, CD, HD, flash memory, etc.):**

This cross-reference art collection is indented under cross-reference art collection 919. Processes directed to separating an adhered layer or portion thereof from another at a bonding face while retaining layer identity during separation where the process is specified as adopted for delaminating recording media; e.g., DVD, CD, HD, flash memory, etc.

## SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 131-137 for disk, tape, or cylinder track media.

428, Stock Material or Miscellaneous Articles, subclasses 800-848.9 for recording media stock.

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D. CHANGES TO THE DEFINITIONS**927 Delaminating vehicle component (e.g., brake pad, etc.):**

This cross-reference art collection is indented under cross-reference art collection 919. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity during separation, where the process is specified delaminating a vehicle component; e.g., brake pad from brake shoe, windshield from car frame, etc.

**928 Delaminating tire (e.g., tread from carcass, etc.):**

This cross-reference art collection is indented under cross-reference art collection 927. Processes directed to separating an adhered layer or portion from another at bonding face while retaining layer identity during separation, where the process is specified delaminating a vehicle tire component; e.g., separating tire tread from carcass.

SEE OR SEARCH THIS CLASS, SUBCLASS:

98, for removal of defective area combined with repair.

**929 Delaminating component from building (e.g., wall paper, shingle, etc.):**

This cross-reference art collection is indented under cross-reference art collection 918. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face while retaining layer identity during separation, where the process is specified as adapted for delaminating a housing or building component housing; e.g., delaminating wall paper from wall, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

71, for processes of laminating to a building.

SEE OR SEARCH CLASS:

52, Static Structures (e.g., Buildings), subclasses 741.1-748.11 for process installing housing components or laminating a layer to a static structure.

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D. CHANGES TO THE DEFINITIONS**930 Semiconductive product delaminating (e.g., delaminating semiconductive wafer from underlayer, etc.):**

This cross-reference art collection is indented under cross-reference art collection 918. Processes directed to separating an adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation, specified as adapted for delaminating a semiconductive product retaining the identity as semiconductive; e.g., removing under layer from a semiconductive wafer, etc.

- (1) Note. Included in this subclass are processes of separating layers of a layered semiconductive product.

## SEE OR SEARCH CLASS:

- 438, Semiconductor Device Manufacturing: Process, subclass 33 for semiconductive wafer manufacture processes with backing removal and subclasses 758 and 759 for semiconductive wafer manufacture processes with removal of coating material.

**931 Peeling away backing:**

This cross-reference art collection is indented under cross-reference art collection 930. Processes directed to separating a semiconductive product adhered layer or portion thereof from another layer at a bonding face, with the layer identity retained during separation, where the process is specified as adapted for delaminating a semiconductive product by peeling away a backing.

## SEE OR SEARCH THIS CLASS, SUBCLASS:

230 through 241, for direct contact transfer of adhered lamina.

247 through 249, for laminating with stripping step.

## SEE OR SEARCH CLASS:

- 438, Semiconductor Device Manufacturing: Process, subclass 458 for semiconductor manufacture processes combined with delamination from backing sheet.

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D. CHANGES TO THE DEFINITIONS**932 With poking during delaminating (e.g., jabbing release sheet backing to remove wafer, etc.):**

This cross-reference art collection is indented under cross-reference art collection 931. Processes directed to separating a semiconductive product adhered layer or portion thereof from another layer at a bonding face, with the layer identity retained during separation, where the process is specified as adapted for delaminating the semiconductive product by poking delamination; e.g., jabbing backing to remove wafer, etc.

**934 Apparatus having delaminating means adapted for delaminating a specified article:**

This cross-reference art collection is indented under the class definition. Apparatus having means for separating an adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted to delaminate a specific identified product.

**935 Delaminating means in preparation for post consumer recycling:**

This cross-reference art collection is indented under cross-reference art collection 934. Apparatus having means for separating at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which means are expressly adapted for delaminating a component for reclamation or reuse.

- (1) Note. The component may be for recycled in the same or a different apparatus than the delaminating means.

SEE OR SEARCH CLASS:

- 100, Presses, subclass 72 for press means with means to recycle materials used in treatments.

**936 Means for delaminating container component in preparation for recycling (e.g., glass bottle, plastic bottle, etc.):**

This cross-reference art collection is indented under cross-reference art collection 935. Apparatus having means for separating an adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted for a specific plastic container delamination; e.g., delamination of label or seal from a bottle.



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D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH CLASS:

15, Brushing, Scrubbing, and General Cleaning, subclass 104.096 for means for cleaning containers.

**937 Means for delaminating specified electronic component in preparation for recycling:**

This cross-reference art collection is indented under cross-reference art collection 935. Apparatus having means for separating an adhered layer article or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted for delaminating a specified electronic component.

**938 Means for delaminating record media for recycling (e.g., CD, DVD, HD, flash memory, etc.):**

This cross-reference art collection is indented under cross-reference art collection 937. Apparatus having means for separating an adhered layer article or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted for delaminating a record media; e.g., CD, DVD, HD, flash memory, etc.

**939 Means for delaminating vehicle component (e.g., tread from carcass, brake pad, etc.):**

This cross-reference art collection is indented under cross-reference art collection 935. Apparatus having means for separating at least one adhered layer or portion thereof from another layer with the layer identity retained during separation which means are expressly adapted to delaminate a specific vehicle component; e.g., tire tread from tire carcass, brake pad from brake shoe, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

395, for means to build a tire combined with means for delaminating.

**940 Means adapted for delaminating component from building (e.g., wall paper, shingle, etc.):**

This cross-reference art collection is indented under cross-reference art collection 935. Apparatus directed to means for separating an adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted for delaminating a specific product in a housing or building; e.g., a roofing or wall tile, etc.

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D. CHANGES TO THE DEFINITIONS

SEE OR SEARCH CLASS:

52, Static Structures, subclasses 749.1-749.15 for housing machine implements.

**941 Means for delaminating semiconductive product:**

This cross-reference art collection is indented under cross-reference art collection 934. Apparatus having means for separating at least one adhered layer or portion thereof from another layer at a bonding face with the layer identity retained during separation which means are expressly adapted for delaminating a semiconductive product.

**942 With reorientation means:**

This cross-reference art collection is indented under cross-reference art collection 941. Apparatus having means for separating at least one adhered layer or portion thereof from another layer specifically adopted for delaminating a semiconductor product with reorienting the product or portion thereof.

(1) Note. Reorientation requires a change in position.

SEE OR SEARCH THIS CLASS SUBCLASS:

540 through 542 for laminating apparatus to separate laminae not in contact with one another are carried on the carrier web or sheet.

**943 With poking delaminating means (e.g., jabbing means, etc.):**

This cross-reference art collection is indented under cross-reference art collection 941. Apparatus having means for separating an adhered layer or portion thereof from another layer with the layer identity retained during separation which means are expressly adapted to a specific semiconductor delamination means which includes poking; e.g., jabbing means, etc.

SEE OR SEARCH CLASS:

425, Plastic Article or Earthenware Shaping or Treating: Apparatus, subclass 431 for means to poke materials within a female mold.

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D. CHANGES TO THE DEFINITIONS**FOREIGN ART COLLECTIONS**

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection Schedule of this Class for specific correspondences. [Note: the titles and definitions for indented art collections include all the details of the one(s) that are hierarchically superior.]

**FOR 100      Delaminating, per se (156/344):**

This foreign art collection is indented under unnumbered placeholder 156/1. Foreign art collection including processes directed to separating at least one adhered layer or portion thereof from another layer at their bonding faces, per se, in which the layer retains its identity during separation.

- (1) Note. Processes for the separation of laminae in which a lamina is destroyed are generally classified in that class which provides for the operation, per se. Thus, for example, destroying a lamina by abrading will be found in Class 451 Abrading; by cutting, in Class 83, Cutting, appropriate subclasses, etc.

**FOR 101      DELAMINATING APPARATUS (156/584):**

This foreign art collection is indented under the class definition. Foreign art collection including apparatus having means to positively force at least two layers out of bonded relationship one to the other.

- (1) Note. The devices must apply a separating force to the parts. The mere destruction of a bond by heat or solvent treatment is not sufficient for this subclass, being provided for in the classes that detail the operation, per se.
- (2) Note. Where a blade or sharp tool is used acting along the plane of the bond to force or wedge the laminae apart, the blade must be free-floating to follow the plane of weakness. A device having a rigidly fixed blade, set for a given thickness of cut is provided for in Class 83, Cutting.

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D. CHANGES TO THE DEFINITIONS

CLASS 221 – ARTICLE DISPENSING

Definitions Modified:

Subclass 73: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 701-719 for a delaminating process, per se, and subclasses 918-933 for a delaminating process adapted to specified products, per se; subclasses 750-767 for delaminating means, per se, and subclasses 934-944 for a delaminating means adapted to specified products, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

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D. CHANGES TO THE DEFINITIONS

CLASS 225 – SEVERING BY/ TEARING OR BREAKING

Definitions Modified:

Subclass 34: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 152 and 247-249 for laminating or bonding processes combined with severing and removal; subclasses 701-719 for a delaminating process, per se, and subclasses 918-933 for a delaminating process adapted to specified products, per se; subclasses 750-767 for delaminating means, per se, and subclasses 934-944 for a delaminating means adapted to specified products, per se, for separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

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D. CHANGES TO THE DEFINITIONS

CLASS 264 – PLASTIC AND NONMETALLIC ARTICLE SHAPING OR TREATING:  
PROCESSES

Definitions Modified:

Subclass 36.1: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 94-97 for repairing by a laminating operation; subclasses 701-719 for a delaminating process, per se, and subclasses 918-933 for a delaminating process adapted to specified products, per se, separating an adhered layer or portion from another layer at a bonding face while retaining layer identity.

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D. CHANGES TO THE DEFINITIONS

CLASS 438 – SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

Definitions Modified:

Class Definition: In Section III, References to Other Classes, under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 60-338 for processes of adhesively bonding and subclasses 701-719 and 930-932 for processes of delaminating, per se, while retaining identity as semiconductive. Multistep processes for packaging semiconductors having no significant semiconductor chip structure are proper for Class 156 when claiming (a) adhesive bonding combined with shaping of nonmetals, (b) adhesive bonding combined with broad or nominally claimed metal-shaping steps, or (c) adhesive bonding including steps for assembling the parts to be bonded. An adhesive bonding unit operation for packaging or mounting operations on semiconductor devices goes as original to Class 156. Adhesive bonding combined with Class 438 coating of a semiconductor substrate or Class 438 etching of a semiconductor substrate places the original in Class 438. (See "Packaging (e.g., With Mounting, Encapsulating, etc.," above).

Subclass 33: Under See or Search Class

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 701-719 and 930-932 for processes directed to separating an adhered layer with the layer identity retained as semiconductive.

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D. CHANGES TO THE DEFINITIONS

Subclass 458: Under the subclass definition

Insert:

SEE OR SEARCH CLASS

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 701-719 and 930-932 for a delaminating process, per se, for separating an adhered layer or portion from another layer at a bonding face with identity retained as semiconductive.



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D. CHANGES TO THE DEFINITIONS

CLASS 700 – DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS

Definitions Modified:

Subclass 95: Under See or Search Class

Delete:

The entire reference to Class 156.

Insert:

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, subclasses 60-338 for a manufacturing process or subclasses 349-583.91 for an apparatus including adhesively bonding parts together; subclasses 701-719 and 918-933 for delaminating process, per se; and subclasses 750-767 and 934-944 for delaminating means, per se, separating an adhered layer or portion of the layer from another layer at a bonding face while retaining layer identity.