

95	PROCESS OF MODIFYING OR MAINTAINING INTERNAL PHYSICAL STRUCTURE (I.E., MICROSTRUCTURE) OR CHEMICAL PROPERTIES OF METAL, PROCESS OF REACTIVE COATING OF METAL AND PROCESS OF CHEMICAL-HEAT REMOVING (E.G., FLAME-CUTTING, ETC.) OR BURNING OF METAL	203	...Simultaneous removing or burning of multiple sides of workpiece
		204	..Flame piercing
		205	..Plural nozzles or plural work- contacting jets
		206	.Carburizing or nitriding using externally supplied carbon or nitrogen source
96	..Superconductive metal or alloy (i.e., superconductive Tc at or below 30`K)	207	..Carburizing or nitriding uniformly throughout the entire mass (i.e., internal carburizing)
97	..Particle (e.g., ion, neutron, etc.) bombardment or electromagnetic wave energy (e.g., laser, etc.)	208	..With decarburizing or denitriding
98	..Producing or treating an A3B (e.g., Nb3Sn, V3Ga, Nb3Al, etc.) superconducting alloy	209	..Utilizing particulate fluid bed
		210	..Of selected surface area (e.g., zone, top only, etc.)
99	..Treating in extraterrestrial environment (e.g., space, moon, etc.) or zero gravity environment	211	...With working, machining, or cutting
		212	...Nitriding
		213	...Utilizing attached protective shield, mask or coating
100	..Magnetic materials	214	...With noncarburizing or non- nitriding coating
101	..Permanent magnet	215	..Measuring, sensing, or testing
102	...Age hardening	216	...Of gas composition (e.g., carbon content, etc.)
103	...Treatment in a magnetic field	217	..With noncarburizing or non- nitriding reactive coating (e.g., oxidizing, siliconizing, boronizing, etc.)
104	..Dust cores		
105	..Particulate material	218	..Combined carburizing and nitriding (e.g., carbonitriding, nitrocarburizing, etc.)
108	..Treatment in a magnetic field	219	...With working, machining, cutting, or post-carburizing and post-nitriding heating or quenching
110	..Silicon steel	220	..With producing or treating of workpiece having plural noncarburized or non-nitrided layers or mechanically engaged article or stock
111	...Working	221	..With casting or solidifying from melt
112	...Heat treatment	222	..Utilizing ionized gas (e.g., plasma, etc.) or electron arc or beam
113	...With special compositions	223	..Including use of vacuum
120	..Working		
121	..Heat treatment		
122	...With special compositions		
194	..Chemical-heat removing (e.g., flame-cutting, etc.) or burning of metal		
195	..Control responsive to sensed condition of workpiece		
196	..Program or pattern control		
197	..Utilizing fluid contact other than flame		
198	..With solid additive		
199	..Metal powder		
200	..Of edge or corner (e.g., deburring, etc.)		
201	..Cylindrical workpiece		
202	..Scarfig (e.g., desurfacing, planing, gouging, etc.)		

224	..Utilizing wave energy (e.g., laser, etc.) or electric heating with work as conductor	248	...Contains nonreactive organic liquid at ambient temperature (e.g., solvent, etc.)
225	..Iron(Fe) or iron base alloy	249	...Nonreactive halogenated hydrocarbon
226	...With working, machining, or cutting	250	...Contains organic phosphorus or organic chromium compound
227	...Utilizing fused agent or media	251	...Contains solid synthetic polymer
228	...Nitriding	252	...Contains dicarboxylic acid or salt thereof which reacts with metal substrate
229	...With post-carburizing quenching	253	...Contains phosphorus
230	...Nitriding	254	...Liquid composition applied prior to reaction of metal substrate with phosphorus (e.g., cleaning, activating, etc.)
231	...Utilizing nitrogen containing agent other than ammonia or elemental nitrogen	255	...With additional coating composition containing an atom of chromium, phosphorus or sulfur
232	...With post-nitriding heat or quenching	256	...Specified liquid or gaseous coating composition applied after reaction with phosphorus
233	...With post-carburizing heating or quenching	257	...Specified coating composition contains organic material
234	...Utilizing agent containing cyano (CN) radical or halogen (X) radical or metal carbonate	258	...Contains an atom of chromium
235	...Utilizing hydrocarbon, oil or oxygenated hydrocarbon (e.g., alcohol, furan, carbohydrate, etc.)	259	...Contains organic additive other than for pH control
236	...Utilizing solid carbonaceous material containing free carbon, coal, peat, or coke	260	...Nitrogen-containing organic compound
237	..Refractory metal (i.e., Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W) or refractory base alloy	261	...Contains an atom of arsenic, boron or metal atom other than alkali metal
238	..Nitriding	262	...Contains an atom of iron or manganese or a group II metal atom (Be, Ca, Sr, Ba, Zn, Cd, Hg)
239	..With ion implantation	263	...Contains an atom of calcium
240	..Processes of coating utilizing a reactive composition which reacts with metal substrate or composition therefore	264	...Contains an atom of chromium
241	..Testing or electrical or wave energy utilized	265	...Post chromium treatment with specified material (other than mere air drying)
242	..Molten bath or molten surface utilized during reaction	266	...Contains an atom of sulfur, selenium or tellurium
243	..Liquid reactive coating composition utilized	267	...Contains trivalent chromium ion or reducing agent or an organic additive
244	...Dye or organic pigment containing	268	...Contains an atom of boron, silicon or metal atom other than alkali metal
245	...Electrically insulating coating formed which is more than mere oxide formation		
246	...Contains lubricant or oil or overcoat thereof		
247	...Contains an atom of hafnium, titanium or zirconium (excludes activating composition)		

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| 269 | ...Metal substrate contains elemental Ti, Zr, Hf, Cu, Ta, or Th or alloy thereof | 505 | ..Utilizing therein factors or percentages related to metal or metal alloy composition (i.e., including carbon content) |
| 270 | ...Contains an atom of sulfur, selenium or tellurium | 506 | ...With chromium(Cr) in the mathematical relationship |
| 271 | ...Contains organic sulfur compound | 507 | ...With titanium(Ti) in the mathematical relationship |
| 272 | ...Coating or treating a metal oxide with a specified composition | 508 | .With measuring, testing, or sensing |
| 273 | ...Contains an atom of arsenic or metal atom other than alkali metal | 509 | ..Magnetic or electrical property |
| 274 | ...Contains organic material | 510 | ..Change in dimension (e.g., expansion, elongation, distortion, etc.) |
| 275 | ...Metal substrate contains elemental aluminum or magnesium or alloy thereof | 511 | ..Temperature |
| 276 | ..Coating during or after metal oxide formation | 512 | .Surface melting (e.g., melt alloying, etc.) |
| 277 | ..Metal oxide formed after applied coating | 513 | .Treating loose metal powder, particle or flake |
| 278 | ..Carbide formation, decarburization or carbonizing | 514 | .Treating consolidated metal powder, per se (i.e., no sintering or compacting step present) |
| 279 | ..Contains an atom of boron or silicon that reacts with metal substrate | 515 | .With explosive or exothermic agent |
| 280 | ..Reactive material applied nonuniformly or reacted selectively | 516 | .Producing or treating layered, bonded, welded, or mechanically engaged article or stock as a final product |
| 281 | ..Metal substrate contains elemental Ti, Zr, Nb, Ag, Ta, or W or alloy thereof | 517 | ..Subambient temperature |
| 282 | ..Metal substrate contains elemental copper or alloy thereof | 518 | ..With electrocoating (e.g., electroplating, anodizing, sputtering, etc.) |
| 283 | ..Contains an atom of halogen, organic material or gaseous sulfur | 519 | ..Pipe or tube |
| 284 | ..Coating composition applied forms oxide coating | 520 | ...With induction heating |
| 285 | ...Oxide of aluminum, beryllium or magnesium formed | 521 | ...With metal fusion bonding |
| 286 | ...Oxide of cobalt, chromium or nickel formed | 522 | ..With casting or solidifying from melt |
| 287 | ...Oxide of iron formed | 523 | ...Of aluminum(Al) or aluminum alloy |
| 500 | ..Utilizing disclosed mathematical formula or relationship | 524 | ..With metal fusion bonding step utilizing electron arc or beam |
| 501 | ..Nonferrous metal, nonferrous based alloy or no-base alloy | 525 | ..Utilizing wave energy (e.g., laser, electromagnetic wave energy, etc.), plasma or electron arc or beam |
| 502 | ...Aluminum(Al) or aluminum base alloy | 526 | ..Electric heating with work as electrical conductor (e.g., alternating current, induction, etc.) |
| 503 | ..Utilizing therein symbol for temperature | 527 | ..With metal next to or bonded to metal |
| 504 | ...With working step | 528 | ...With brazing or soldering |

529	...Iron(Fe) or iron base alloy present	559	..Heating or cooling of solid metal
530	...Next to nonferrous metal or nonferrous base alloy	560	..Actinide or trans-actinide metal or alloy having greater than 50 percent actinide or trans-actinide metals
531	....Aluminum(Al) or aluminum base alloy	561	..Passing through an amorphous state or treating or producing an amorphous metal or alloy
532	....Copper(Cu) or copper base alloy	562	..Treating single crystal
533	....Zinc(Zn), zinc base alloy or unspecified galvanizing	563	..Mechanical memory (e.g., shape memory, heat-recoverable, etc.)
534	...With working	564	..Superplastic (e.g., dynamic recrystallization, etc.)
535	..Aluminum(Al) or aluminum base alloy present	565	..Utilizing wave energy (e.g., laser, electromagnetic, etc.) plasma or electron arc or beam
536	..Copper(Cu) or copper base alloy	566	..Electric heating with work as conductor (e.g., alternating current, induction, etc.)
537	..With coating step	567	...Induction
538	..With casting or solidifying from melt	568	...Wire or filament
539	..Centrifugal casting	569	...Railway stock (e.g., rails, wheels, axles, etc.)
540	..Iron(Fe) or iron base alloy	570	...Of hollow bodies (e.g., pipe, sphere, etc.)
541	...Continuous casting	571	....Inside only
542	...Containing at least nine percent chromium(Cr) (e.g., stainless steel, etc.)	572	...Rod, axle, shaft, or roller
543	...Containing at least 1.5 percent carbon	573	...Gear, threaded article, drill or serrated work surface (e.g., saw blade, etc.)
544	....With working	574	...And cooling with fluid contact
545	....With tempering, ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening, or quenching	575	....Iron(Fe) or iron base alloy
546	...With working	576	..Wire or filament
547	...With tempering, ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening, or quenching	577	..Chilling to subambient temperature
548	...With tempering, ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening, or quenching	578	...Iron(Fe) or iron base alloy
549	..Aluminum(Al) or aluminum base alloy	579	..Iron(Fe) or iron base alloy
550	...With extruding or drawing	580	...Spring or spring material
551	...Continuous casting	581	...Railway stock (e.g., rails, wheels, axles, etc.)
552	...With working	582	...Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum
553	..Copper(Cu) or copper base alloy	583	...Wheel
554	...With working	584	...With working
555	..Nickel(Ni) or nickel base alloy	585	...With work handling
556	...With working	586	...Gear
557	...With working	587	...Threaded article (e.g., screws, drill bits, etc.)
558	..With vibration (e.g., mechanical, sound, etc.)		

588	...Serrated work surface (e.g., saw blades, etc.)	611	....Austenitic phase structure
589	...Ring	612	...Starting material contains 1.7 percent or more carbon (e.g., cast iron, etc.)
590	...Pipe or tube		
591	....Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum	613	....Decarburizing
		614	....Starting material is spherulitic (i.e., spheroidal) or vermicular (i.e., wormlike)
592	...Nine percent or more chromium(Cr) (e.g., stainless steel, etc.)	615	...Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum
593	...With working		
594	...With work handling	616	...Treating or producing white or malleable cast iron
595	...Wire, rod, or filament		
596	....Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum	617	....Producing malleable cast iron
		618	.....With spheroidal graphite production
597	...Nine percent or more chromium(Cr) (e.g., stainless steel, etc.)	619	...Containing 10 percent or more manganese(Mn) (e.g., Hadfield steel, etc.)
598	...With working	620	...With working
599	....With working at or below 120°C or unspecified cold working	621	...Highly alloyed (i.e., greater than 10 percent alloying elements)
		622	...Ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
600	...With work handling	623	...Overageing
601	...With coiling or treating of coiled strip	624	...With working
602	...With working	625	...Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum
603	....With working at or below 120°C or unspecified cold working		
604	...Of stacked plural workpieces	626	...With preserving, recovering, separately treating or handling of the specified treating agent
605	...Nine percent or more chromium(Cr) (e.g., Stainless steel, etc.)		
606	....Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum	627	...With localized or zone heating or cooling
		628	....Using vacuum
607	....Ageing, solution treating (i.e., for hardening), precipitation strengthening or precipitation hardening	629	....Decarburizing or denitriding
		630	....Utilizing particulate fluid bed
608	....With working	631	....Fused treating agent
609	....With working	632	....With working
610	....With working at or below 120°C or unspecified cold working	633	....Gaseous agent
		634	....Hydrogen
		635	....With working
		636	....Liquid agent

637	.....And cooling or quenching	668	..Refractory metal (i.e., titanium(Ti), zirconium(Zr), hafnium(Hf), vanadium(V), niobium(Nb), columbium(Cb), tantalum(Ta), chromium(Cr), molybdenum(Mo), tungsten(W)), or alloy base thereof
638	.....Treating composition contains water	669	...Titanium(Ti) or titanium base alloy
639	...Localized or zone heating or cooling	670	...With working
640	....Utilizing protective or insulating shielding from heat	671	....With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
641	....Simultaneous heating and cooling treatment	672	..Zirconium(Zr) or zirconium base alloy
642	....Heating with flame treatment	673	...Tungsten(W) or tungsten base alloy
643	....With working	674	..Cobalt(Co) or cobalt base alloy
644	....Cooling	675	..Nickel(Ni) or nickel base alloy
645	..With flattening, straightening, or tensioning by external force	676	...With working
646	...With restraining of metal from expanding or contracting during heating or cooling	677	....With ageing, solution treating, (i.e., for hardening), precipitation hardening or strengthening
647	....Die quenching	678	..Noble metals (i.e., silver(Ag), gold(Au), osmium(Os), iridium(Ir), platinum(Pt), ruthenium(Ru), rhodium(Rh), palladium(Pd)) or alloy base thereof
648	...With working	679	..Copper(Cu) or copper base alloy
649	....Forging	680	...With working above 400°C or nonspecified hot working
650	....With working at or below 120°C or unspecified cold working	681	....Multiple working steps
651	.....Heating step follows cold working	682	....With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
652	.....Separate cooling step follows cold working step	683	...With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
653	...With additional nonworking heating step	684	...With working
654	....Including cooling (e.g., quenching, etc.)	685	...With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
655	...With separate handling or treating of air, water, or unspecified fluid treating media	686	...With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening
656	...Work handling		
657	....Continuous strip or sheet		
658	....During cooling step		
659	...Including spheroidizing		
660	...Including cooling (e.g., quenching, etc.)		
661	....Strip, sheet, or plate		
662	....Heating step follows cooling		
663	.....Tempering		
664	....Multiple cooling steps		
665	..Beryllium(Be) or beryllium base alloy		
666	..Magnesium(Mg) or magnesium base alloy		
667	...With working		

687	...Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent or denitriding agent, etc.) or vacuum	709	...With preserving, recovering or separately handling or treating of the agent
688	..Aluminum(Al) or aluminum base alloy	710	...Utilizing particulate form in fluid bed
689	...With extruding or drawing	711	...In fused state
690	...And ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening	712	...In gaseous state
691	...With working above 400`C or nonspecified hot working	713	...In liquid state
692	...Multiple working steps	714	..Localized or zone heating or cooling treatment
693	....With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening	22	COMPOSITIONS
694	....With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening	23	.Fluxing
695	...With working	24	..Metallic
696	...Multiple working steps	25	..Oleaginous
697	....With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening	26	..Inorganic
698	...With ageing, solution treating (i.e., for hardening), precipitation hardening or strengthening	27	.Heat treating
699	....Copper(Cu) containing	28	..Liquid
700	....Magnesium(Mg) containing	29	..Oleaginous
701	.....Zinc(Zn) containing	30	..Carbonaceous
702	...Magnesium(Mg) containing	33	BARRIER LAYER STOCK MATERIAL, P-N TYPE
703	...Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum	33.1	.With contiguous layer doped to degeneracy
704	....In fused state	33.2	.With recess, void, dislocation, grain boundaries or channel openings
705	..Zinc(Zn) or zinc base alloy	33.3	.With non-semiconductive coating thereon
706	..Lead(Pb) or lead base alloy	33.4	.With contiguous layers of different semiconductive material
707	..Over 50 percent metal, but no base	33.5	.Having at least three contiguous layers of semiconductive material
708	..Treating with specified agent (e.g., heat exchange agent, protective agent, decarburizing agent, denitriding agent, etc.) or vacuum	33.6	..Including an alloy layer having named impurities
		400	STOCK
		401	.Radioactive
		300	.Magnetic
		301	..Rare earth and transition metal containing
		302	...Boron containing
		303	...Copper containing
		304	..Amorphous
		305	...With inclusion
		306	..Iron base (i.e., ferrous)
		307	...Silicon containing
		308	....Specific crystallographic orientation
		309	....Containing over 1 percent aluminium
		310	...Nickel containing
		311	...Cobalt containing
		312	..Nickel base
		313	..Cobalt base

314	..Manganese base	418	....Vanadium, niobium or tantalum containing
315	..No single metal over 50 percent	419	..Containing over 50 percent metal, but no base metal
316	.Carburized or nitrided	420	.Magnesium base
317	..Nitrided	421	.Titanium, zirconium, or hafnium base
318	..Ferrous (i.e., iron base)	422	.Vanadium, niobium, or tantalum base
319	..Ferrous (i.e., iron base)	423	.Chromium, molybdenum, or tungsten base
402	.Mechanical memory	424	.Manganese base
403	.Amorphous, i.e., glassy	425	.Cobalt base
404	.Directionally solidified	426	.Nickel base
320	.Ferrous (i.e., iron base)	427	..Chromium containing
321	..1.7 percent or more carbon containing (e.g., cast iron)	428	...Aluminum containing
322	..Malleabilized	429	..Aluminum containing
323	..Chill cast	430	.Noble metal base
324	..Six percent or more group IV, V or VI transition metal containing	431	..Silver base containing in situ formed oxides
325	..Nine percent or more chromium containing	432	.Copper base
326	...Age or precipitation hardened or strengthened	433	..Tin containing
327	...Eight percent or more total content of nickel and/or manganese containing	434	..Zinc containing
328	..Age or precipitation hardened or strengthened	435	..Nickel containing
329	..Eight percent or more manganese containing	436	..Aluminum containing
330	..Beryllium or boron containing	437	.Aluminum base
331	..Rare earth meal containing	438	..Copper containing
332	..Copper containing	439	...Magnesium containing
333	..Chromium containing, but less than 9 percent	440	..Magnesium containing
334	...Molybdenum containing	441	.Zinc base
335	...Nickel containing	442	.Containing over 50 percent metal, but no base metal
336	..Nickel containing		
337	..Three percent or more manganese containing or containing other transition metal in any amount		
405	.Age or precipitation hardened or strengthened		
406	..Magnesium base		
407	..Refractory metal base		
408	..Cobalt base		
409	..Nickel base		
410	...Chromium containing		
411	..Copper base		
412	...Tin containing		
413	...Zinc containing		
414	...Nickel containing		
415	..Aluminum base		
416	...Copper containing		
417	...Magnesium containing		

CROSS-REFERENCE ART COLLECTIONS

900	ION IMPLANTED
901	SURFACE DEPLETED IN AN ALLOY COMPONENT (E.G., DECARBURIZED)
902	HAVING PORTIONS OF DIFFERING METALLURGICAL PROPERTIES OR CHARACTERISTICS
903	.Directly treated with high energy electromagnetic waves or particles (e.g., laser, electron beam)
904	.Crankshaft
905	.Cutting tool
906	.Roller bearing element
907	.Threaded or headed fastener
908	.Spring
909	.Tube

910 .In pattern discontinuous in two dimensions (e.g., checkerboard pattern)

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

DIG 1	AMORPHOUS SEMICONDUCTOR	DIG 38	DIFFUSIONS-STAGED
DIG 2	AMPHOTERIC DOPING	DIG 39	DISPLACE P-N JUNCTION
DIG 3	ANNEAL	DIG 40	DOPANTS, SPECIAL
DIG 4	ANNEALING, INCOHERENT LIGHT	DIG 41	DOPING CONTROL IN CRYSTAL GROWTH
DIG 5	ANTIMONIDES OF GALLIUM OR INDIUM	DIG 42	DOPING, GRADED, FOR TAPERED ETCHING
DIG 6	APPARATUS	DIG 43	DUAL DIELECTRIC
DIG 7	AUTODOPING	DIG 44	EDGE DIFFUSION UNDER MASK
DIG 8	BI-LEVEL FABRICATION	DIG 45	ELECTRIC FIELD
DIG 9	BI-MOS	DIG 46	ELECTRON BEAM TREATMENT OF DEVICES
DIG 10	BIPOLAR TRANSISTORS-ION IMPLANTATION	DIG 47	EMITTER DIP
DIG 11	BIPOLAR TRANSISTORS	DIG 48	ENERGY BEAM ASSISTED EPI GROWTH
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DIG 13	BREAKDOWN VOLTAGE	DIG 50	ETCH AND REFILL
DIG 14	CAPACITOR	DIG 51	ETCHING
DIG 15	CAPPING LAYER	DIG 52	FACE TO FACE DEPOSITION
DIG 16	CATALYST	DIG 53	FIELD EFFECT TRANSISTORS FETS
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DIG 114	NITRIDES OF SILICON	DIG 161	TAPERED EDGES
DIG 115	ORIENTATION	DIG 162	TESTING STEPS
DIG 116	OXIDATION, DIFFERENTIAL	DIG 163	THICK-THIN OXIDES
DIG 117	OXIDATION, SELECTIVE	DIG 164	THREE DIMENSIONAL PROCESSING
DIG 118	OXIDE FILMS	DIG 165	TRANSMUTATION DOPING
DIG 119	PHOSPHIDES OF GALLIUM OR INDIUM	DIG 166	TRAVELING SOLVENT METHOD
DIG 120	PHOTOCATHODES-CS COATED AND SOLAR CELL	DIG 167	TWO DIFFUSIONS IN ONE HOLE
DIG 121	PLASTIC TEMPERATURE	DIG 168	V-GROOVES
DIG 122	POLYCRYSTALLINE	DIG 169	VACUUM DEPOSITION (INCLUDES MOLECULAR BEAM EPITAXY)
DIG 123	POLYCRYSTALLINE DIFFUSE ANNEAL	DIG 170	VAPOR-LIQUID-SOLID
DIG 124	POLYCRYSTALLINE EMITTER	DIG 171	VARISTOR
DIG 125	POLYCRYSTALLINE PASSIVATION	DIG 172	VIDICONS
DIG 126	POWER FETS	DIG 173	WASHED EMITTER
DIG 127	PROCESS INDUCED DEFECTS	DIG 174	ZENER DIODES
DIG 128	PROTON BOMBARDMENT OF SILICON		
DIG 129	PULSE DOPING		
DIG 130	PURIFICATION		
DIG 131	REACTIVE ION ETCHING RIE		