^		16	RAILWAY-CHAIR MAKING
2	BATTERY-GRID MAKING	17.1	FOIL OR OTHER THIN SHEET-METAL
2.1	BIAS (I.E., HELICALLY) CUTTING OF TUBULAR STOCK	_,,_	MAKING OR TREATING
0 11		17.2	.Method
2.11	.Including orbital cutter	17.3	Clad or other composite foil or
2.12	Within stock support	17.3	thin metal making
2.13	With orbiting strip accumulator	17.4	With assembling or
2.14	.Including means to inflate stock	_,,	disassembling of a pack
2.15	.With means to feed stock along	17.5	Using transitory solid cover
0 16	support or mandrel	17.00	material
2.16	Single means produces compound	17.6	Including bond prevention
0 10	motion		treatment
2.17	Endless belt drive means	17.7	Disassembling of a pack
2.18	Axially	17.8	By shaving or longitudinal
2.19	Rotatably		cutting
2.2	.With means to rotate and store	17.9	Using transitory material
2.21	stock supply	18.1	.Means for opening or separating
2.21	Axis of rotation parallel to support or mandrel		a pack
2.22	.With means for arcuate shift of	20	SPECTACLE-FRAME MAKING
2.22	mandrel	20.1	SPIRAL CUTTING OF FLAT STOCK
2.23	.Including means to handle	21	STEREOTYPE-PLATE FINISHING
	produced strip or web	21.1	MEANS FOR FORMING CLENCH-TONGUE
2.24	With common adjustment for		(E.G., FOR TIEBAND)
	cutter	22	TIRE UPSETTING, WITH CUTTING,
2.25	.Method		PUNCHING, ETC.
3	BUCKLE MAKING	23.1	TOOTHED-CYLINDER MAKING APPARATUS
4	BUTTON-FASTENER MAKING		(E.G., TEXTURE WORKING
4.51	SHREDDING METAL OR METAL WOOL		CYLINDER)
	ARTICLE MAKING	23.51	IMPELLER MAKING APPARATUS
4.52	.Metal wool making	24	TYPE FINISHING AND GROOVING
4.53	Shaving or longitudinal cutting	24.5	VENETIAN BLIND ASSEMBLING
4.54	Soap-pad making	25	UMBRELLA-FRAME MAKING
4.55	.Metal wool bundling	25.01	BARRIER LAYER OR SEMICONDUCTOR
4.56	Soap-pad making		DEVICE MAKING
4.6	CORD HEDDLE MAKING	25.02	.Barrier layer device making
5	COTTER-PIN MAKING	25.03	Electrolytic device making
6.01	CRANKSHAFT MAKING APPARATUS		(e.g., capacitor)
6.1	EXPANDED METAL MAKING	25.35	PIEZOELECTRIC DEVICE MAKING
6.2	.By use of reciprocating	25.41	ELECTRIC CONDENSER MAKING
	perforator	25.42	.Solid dielectric type
7	EYEBOLT OR HOOK MAKING	76.1	FILING
7.1	FENCE BARB MAKING	76.2	.Of key article
7.2	.By use of reciprocating cutter	76.3	.Continuous band type
	or die	76.4	Reciprocating type
7.3	.By use of rotary cutter or die	77	.File-blank stripper
8	FINGER-RING FORMING OR SIZING	81.01	SCALE REMOVER OR PREVENTOR
9	FISHHOOK MAKING	81.02	.For hollow workpiece
10	GEM AND JEWEL SETTING	81.021	
11	HINGE MAKING OR ASSEMBLING	81.03	.Rolling deformation or
12	LACING-STUD MAKING	01 04	deflection
13	PAPER-FASTENER MAKING	81.04	For wire or rod
14	PLOW OR CULTIVATOR IRON MAKING	81.05	.With rotary head
15	PUDDLERS BALLS MAKING	81.06	.Fluid impingement

81.07	With heater	603.03	5
81.08	Liquid jet	603.04	Mounting preformed head/core
81.09	Airblast		onto other structure
81.1	.Chainer	603.05	Mounting multitrack head
81.11	.Scraper or scalper	603.06	With bonding
81.12	.Brush type	603.07	Fabricating head structure or
81.13	.Mechanically powered operator		component thereof
81.14	Tack or needle type	603.08	Treating to affect magnetic
81.15	Hammer		properties
81.16	Blade or chisel	603.09	Including measuring or
81.17	.Hand tool		testing
89.5	BURNING IN, WEARING IN, OR OIL	603.1	Using reference point/
	BURNISHING		surface to facilitate
90.01	BURNISHING		measuring
90.1	.Of water laid fibrous article	603.11	With dual gap materials
3011	(e.g., paper)	603.12	With significant slider/
90.2	Heated burnishing member		housing shaping or treating
90.3	Burnishing tool reciprocates	603.13	Depositing magnetic layer
50.5	across work surface		or coating
90.5	.Continuous feed	603.14	3
90.6	.Of gear article		layers
90.7	.By shot peening or blasting	603.15	-
91	UPHOLSTERED ARTICLE MAKING		of magnetic material
91.1	.Method	603.16	_
91.1			(e.g., grinding, etching,
91.2	.TuftingWith means to clench fastener		polishing)
		603.17	
91.4	With means to insert guide pin	603.18	
01 5	or fastener	603.19	Multitrack heads having
91.5	.Cover stretching	000.15	integral holding means
91.6	.Edge-roll forming	603.2	With bond/laminating
91.7	.Form or holder	000.2	preformed parts, at least two
91.8	With follower		magnetic
592	METHOD OF MECHANICAL MANUFACTURE	603.21	Using glass bonding
592.1	.Electrical device making	000.22	material
593	Including measuring or testing	603.22	With work positioning means
	of device or component part	603.23	Providing winding
594	Acoustic transducer	603.24	Multilayered winding
595	Indicating transducer		By coating
596	Dynamoelectric machine	603.26	Preformed winding
597	Commutator or slip ring	603.27	Specified diverse magnetic
	assembly	003.27	materials
598	Rotor	604	Data storage inductor or core
599	Superconductor	605	By winding or coiling
600	Antenna or wave energy	606	
	"plumbing" making	607	By assembling coil and core
601	With other electrical	607	Including permanent magnet or core
602 1	component	608	From comminuted material
602.1	Electromagnet, transformer or	609	Laminated
602 01	inductor	609.1	Acoustic transducer
603.01	Magnetic recording reproducing	610.1	Resistor making
	<pre>transducer (e.g., tape head, core, etc.)</pre>	611	Heater type
603 02		612	Thermally variable
603.02	Including dissassembly step		*

613	With envelope or housing	845	With shaping or forcing
614	Filling with powdered		terminal into base aperture
	insulation	846	Manufacturing circuit on or
615	With direct compression of	0.45	in base
C1.C	powdered insulation	847	With selective destruction
616	Powdering the insulation	0.4.0	of conductive paths
617	By oxidation	848	With molding of insulated
618	With winding	0.4.0	base
619	Applying terminal	849	Simultaneous circuit
620	Coating resistive material on	0.5.0	manufacturing
601	a base	850	By using wire as conductive
621	Applying terminal	0.5.1	path
621.1	Strain gauge making	851	With sintering of base
622	Switch making	852	By forming conductive walled
623	Fuse making	0.5.3	aperture in base
623.1	Electric battery cell making	853	With deforming of
623.2	Including sealing	0.5.4	conductive path
623.3	Including laminating of	854	Assembling electrical
	indefinite length material		component directly to terminal
623.4	Including adhesively bonding	0.5.5	or elongated conductor
623.5	Including coating or	855	With encapsulating
	impregnating	856	By molding of insulating
825	Conductor or circuit	0.5.5	material
	manufacturing	857	Assembling terminal to
826	Brush	0.5.0	elongated conductor
827	Beam lead frame or beam lead	858	With molding of electrically insulating material
000	device	859	By shrinking of cover
828	Co-axial cable	860	By metal fusion bonding
829	On flat or curved insulated	861	By deforming
	base, e.g., printed circuit,	862	Of ferrule about conductor
020	etc.	002	and terminal
830	Assembling bases	863	Of terminal
831	Assembling formed circuit to	864	With forming eyelet from
022	baseAssembling to base an	004	elongated conductor
832	3	865	With penetrating portion
	<pre>electrical component, e.g., capacitor, etc.</pre>	866	Through insulation
833	By utilizing optical	867	With insulation removal
033	sighting device	868	Assembling elongated
834	With component orienting	000	conductors, e.g., splicing,
835	And shaping, e.g., cutting		etc.
033	or bending, etc.	869	With end-to-end orienting
836	Different components	870	Including fluid evacuating
837	<del>-</del>	070	or pressurizing
03/	By inserting component lead or terminal into base aperture	871	Including deforming of
838	With deforming of lead or	071	joining bridge
030	terminal	872	With overlapping orienting
839	Including metal fusion	873	Including oppositely facing
840	By metal fusion	0,5	end orienting
841	With encapsulating, e.g.,	874	Contact or terminal
041	potting, etc.	J , 1	manufacturing
842	Assembling terminal to base	875	By powder metallurgy
843	By metal fusion bonding	876	By assembling plural parts
844	By metal fusion bondingBy deforming or shaping	877	With bonding
OIT	by derorming or snaping	878	Of fused material
		0 / 0	rabea material

879	Metal	888.072	Including casting or molding
880	By impregnating a porous mass		Including rolling or die forming, e.g., drawing,
881	By elastic joining		punching
882	With deforming	888.074	Including coating or plating
883	With molding of insulation		Including grinding or honing
884	Forming array of contacts or terminals	888.076	Including machining or angular cutting
885	With coating	888.08	Crankshaft making
886	Electret making		Connecting rod making
887	Insulator making		Including metallurgical
888	.Prime mover or fluid pump making		bonding
888.01	I.C. (internal combustion)	888.092	Including metal forging or die
	engine making		shaping
888.011	Repairing, converting,	888.1	Camshaft making
	servicing or salvaging	888.2	Push rod or rocker arm making
888.012	Rotary or radial engine making	888.3	Seal or packing making
	Fluid pump or compressor making	888.4	Poppet or I.C. engine valve or
	Repairing, converting,		valve seat making
	servicing or salvaging	888.41	Valve guide making
888.022	Scroll or peristaltic type	888.42	Repairing, converting,
888.023	Screw or gear type, e.g.,		servicing or salvaging
	Moineau type	888.43	Valve tappet making
888.024	Centrifugal type	888.44	Valve seat making
888.025	Vane type or other rotary,	888.45	Composite or hollow valve stem
	e.g., fan		or head making
888.03	Valve lifter making	888.451	Including forging
888.04	Piston making	888.452	Including extruding
888.041	Repairing, converting,	888.453	Including casting
	servicing or salvaging	888.46	With assembly or composite
888.042	Multi-element piston making		article making
888.043	Utilizing a high energy beam,	889	.Impeller making
	e.g., laser, electron beam	889.1	Repairing or disassembling
888.044	With assembly or composite	889.2	Turbomachine making
	article making	889.21	Assembling individual fluid
888.045	With thermal barrier or heat		flow interacting members,
	flow provision		e.g., blades, vanes, buckets,
888.046	With fiber reinforced		on rotary support member
	structure	889.22	Assembling fluid flow
888.047	By composite casting or		directing devices, e.g.,
	molding		stators, diaphragms, nozzles
	By coating or cladding	889.23	Shaping integrally bladed
888.049	Ring groove forming or finishing	889.3	rotorAxial blower or fan
888.05	Gudgeon pin, wrist pin, piston	889.4	Centrifugal blower or fan
000.05	pin, or boss therefor	889.5	Fluid coupling device
888 051	With other attaching provision	889.6	Propeller making
000.031	for connecting rod	889.61	Utilizing hollow tube blank
888.06	Cylinder, cylinder head or	889.7	Blade making
	engine valve sleeve making	889.71	Composite blade
888.061	With liner, coating, or sleeve	889.72	Hollow blade
888.07	Piston ring or piston packing		With cooling passage
• •	making		Passage contains tubular
888.071	Including forging or hammering		insert
		890	.Catalytic device making
			-

	.Rocket or jet device making	890.124	With assembly, disassembly or
890.02	.Burner, torch or metallurgical		composite article making
	lance making	890.125	Joining plural semi-circular
	.Heat exchanger or boiler making		components
890.031	Repairing, converting,	890.126	With material shaping or
	servicing or salvaging		cutting
890.032	Heat pipe device making	890.127	Including molding or casting
890.033	Solar energy device making	890.128	Including machining or
	Regenerator or recuperator		drilling
	making	890.129	Including metallurgical
890 035	Cooling apparatus making, e.g.,		bonding
050.055	air conditioner, refrigerator	890 13	Including metal deforming
890 036	Tube inside tube		Including metallurgical
	Tube wound about tube	000.101	bonding
		000 122	Including metal shaping and
890.038	Tube joined to flat sheet	090.132	
	longitudinally, i.e., tube	000 14	diverse operation
	sheet	890.14	.Gas and water specific plumbing
	Sheet joined to sheet		component making
	With inserted tubes		Plumbing fixture making
890.041	Utilizing bond inhibiting	890.142	Nozzle making
	material	890.143	Sprayer
890.042	With subsequent fluid	890.144	Flexible conduit or fitting
	expansion		therefor
890.043	Tube joint and tube plate	890.145	Flue connector device making
	structure	890.146	Trap making
890.044	Including conduit expansion or		Return connector device making
	inflation		T-shaped fitting making
890.045	Tube with heat transfer means		
	Tube with heat transfer means		Elbow or L-shaped fitting
890.046	Finned tube	890.149	Elbow or L-shaped fitting making
890.046	Finned tubeCommon fin traverses	890.149 890.15	<ul><li>Elbow or L-shaped fitting making</li><li>Ferrule making or reforming</li></ul>
890.046 890.047	<pre>Finned tubeCommon fin traverses plurality of tubes</pre>	890.149 890.15 891	<ul><li>Elbow or L-shaped fitting making</li><li>Ferrule making or reforming</li><li>.Agricultural device making</li></ul>
890.046 890.047 890.048	<pre>Finned tubeCommon fin traverses plurality of tubesHelically finned</pre>	890.149 890.15	<ul><li>Elbow or L-shaped fitting making</li><li>Ferrule making or reforming</li><li>.Agricultural device making</li><li>Traction apparatus, e.g., for</li></ul>
890.046 890.047 890.048 890.049	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finned	890.149 890.15 891 891.1	<ul><li>Elbow or L-shaped fitting making</li><li>Ferrule making or reforming</li><li>.Agricultural device making</li><li>Traction apparatus, e.g., for tractor</li></ul>
890.046 890.047 890.048 890.049	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece,	890.149 890.15 891 891.1	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>.Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> </ul>
890.046 890.047 890.048 890.049 890.05	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly	890.149 890.15 891 891.1 891.2 892	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> </ul>
890.046 890.047 890.048 890.049 890.05	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler making	890.149 890.15 891 891.1 891.2 892 892.1	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> <li>Assembly</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold making	890.149 890.15 891 891.1 891.2 892	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reforming	890.149 890.15 891 891.1 891.2 892 892.1	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> <li>Assembly</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold making	890.149 890.15 891 891.1 891.2 892 892.1 892.11	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> <li>Assembly</li> <li>With shaping</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reforming	890.149 890.15 891 891.1 891.2 892 892.1 892.11	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>.Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> <li>Assembly</li> <li>With shaping</li> <li>Disc splitting to form pulley</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding	890.149 890.15 891.8 891.1 891.2 892.1 892.1 892.11	<ul> <li>Elbow or L-shaped fitting making</li> <li>Ferrule making or reforming</li> <li>.Agricultural device making</li> <li>.Traction apparatus, e.g., for tractor</li> <li>Harvester guard</li> <li>.Pulley making</li> <li>Assembly</li> <li>With shaping</li> <li>Disc splitting to form pulley rim groove</li> <li>Groove forming in sheet metal</li> </ul>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear making
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force
890.046 890.047 890.048 890.05 890.05 890.051 890.052 890.053 890.054 890.06 890.07	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making	890.149 890.15 891 891.1 891.2 892.8 892.1 892.11 892.2 893.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting device
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device	890.149 890.15 891.891.1 891.2 892.1 892.1 892.3 893.3 893.1	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mounting
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06 890.07	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making	890.149 890.15 891.891.1 891.2 892.1 892.1 892.2 892.3 893.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shaping
890.046 890.047 890.048 890.05 890.05 890.051 890.052 890.053 890.054 890.06 890.07	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device	890.149 890.15 891.8 891.1 891.2 892.8 892.1 892.11 892.2 893.3 893.3 893.31	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gear
890.046 890.047 890.048 890.059 890.051 890.052 890.053 890.054 890.06 890.07 890.08	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making, e.g., ink jet	890.149 890.15 891.8 891.1 891.2 892.8 892.1 892.2 892.3 893.3 893.3 893.3 893.31 893.32	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll forming
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890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08 890.12 890.11 890.11 890.12 890.121	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making, e.g., ink jet .Tapping device making .Valve or choke making .Repairing, converting, servicing or salvagingValve seat forming	890.149 890.15 891 891.1 891.2 892.892.1 892.1 892.2 892.3 893.3 893.31 893.32 893.33 893.31 893.32 893.33	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll formingPunching or stampingDie-press shapingGear tooth cutting
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	Railway or trolley wheel making	895.213	Work contacting surface
	Multiple part or composite		having annular axial sections
894.012	With axle or hub	895.22	Work contacting surface
894.1	Steering wheel		element assembled to end
894.2	Material winding, e.g., reel,		support members
	spool	895.23	Includes securing removable
894.3	Land wheel		cover on roller
894.31	Assembling tire to wheel body	895.3	Fabricating and shaping roller
	Disc type wheel		work contacting surface
	Assembling wheel disc to rim		element
051.321	and hub	895.31	Toothed roller
894 322	Assembling wheel disc to rim	895.32	With coating or casting about
	With disc shaping		a core
		895.33	One-piece roller making
	Integral rim and disc making	896.1	.Dental appliance making
	Disc shaping	896.11	
894.33	Tensioned spoke type wheel	896.2	3
	making		.Sound device making
894.331	Tensioning all spokes		Hearing aid component making
	simultaneously	896.22	
	Tensioning spokes in series		fork making
894.333	Tensioning spokes	896.23	Including diaphragm or support
	individually		therefor
894.34	Compression, e.g., nontension,	896.24	Phonograph component making
	spoke type wheel making	896.3	.Watch or clock making
894.341	Joining spokes to rim and hub	896.31	Having arbor, pinion, or
	Joining spokes to rim		balance
	Joining spokes to hub	896.32	Having indicia, face, or dial
	Making plural spokes from a	896.33	Having case, cover, or back
051.511	single blank	896.34	Having crown, stem, or pendent
801 315	Individual spoke making	896.4	.Jewelry or locket making
	Rim making	896.41	_
	With assembling		Bracelet making
			Finger ring making
	Demountable rim making	896.42	
	Die-press shaping	090.42	<del>-</del>
	Roller forming	006 43	component making
	Hub making	896.43	
	With assembling	896.5	.Knob or knob shank making
894.362	Hub shaping	896.6	.Multiperforated metal article
894.37	Tire making		making
894.38	Wheel trim making, e.g., wheel	896.61	Coil wound wall screen
	cover, hubcap	896.62	Filter
894.381	With means for retaining trim	896.7	.Turnbuckle making
	member on wheel	896.8	.Spring-head clip making
895	.Roller making	896.9	.Spring making
895.1	Repairing or servicing	896.91	For vehicle or clutch
895.2	Assembling preformed components	896.92	For human comfort
895.21	Work contacting surface	896.93	Resilient shock or vibration
,,,,,,	element assembled to core		absorber utility
895 211	Work contacting surface wound	897	.Structural member making
0/0.411	about core	897.1	Restoring existing member,
005 212	With prestressing of	<u> </u>	e.g., reinforcing, repairing
093.414		897.15	Grille making
	component by heat	897.13	Vehicular structural member
	differential, e.g., shrink,	091.4	
	fit		making

007 3		000 060	D 11
897.3	Static structure, e.g., a		Roller making
007 21	building component		Ball making
897.31	Openwork, e.g., a truss,		Mounting
	joist, frame, lattice-type or box beam		Demounting
007 210	32 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3	898.09	Pre-usage process, e.g.,
	Frame component		preloading, aligning
897.32	Panel	898.1	Lubricating
897.33	Columnar member	898.11	Sealing
897.34	Metal reinforcement member for	898.12	Coating or casting
	nonmetallic, e.g., concrete,	898.13	Bearing surface treatment
	structural element	898.14	Specific metallic composition
897.35	Beam or girder	898.15	Nonmetallic bearing element
898	.Process for making bearing or	899	.Ball making
	component thereof	899.1	Hollow ball
	Repairing	401.1	.Converting
898.02	Fluid bearing	402.01	.Repairing
898.03	Linear bearing		Seal or element thereof
898.04	Rotary bearing	402.03	With disassembling
898.041	Thrust bearing	402.04	_
898.042	Plain bearing		part
898.043	Self-adjusting or self-	402.05	-
	aligning, including ball and	402.06	1 1 3
	socket type, bearing and	402.07	And by a metallurgical
	component making	402.07	operation, e.g., welding,
898.044	Deforming socket to secure		diffusion bonding, casting
	ball	102 08	Replacing of defective part
898.045	Die-press shaping	402.09	
	Having liner	402.09	e.g., remaking, restoring, or
	Having liner		patching
	Socket making	102 11	And removing damaged material
	By molding or casting	402.11	
	Nonmetallic socket	402.12	1 3
	By assembling	400 10	preform with separate fastener
	Ball making	402.13	Metallurgically attaching
	With metallurgical bonding	100 11	preform
		402.14	Mechanically attaching preform
	Sleeve or bushing making	400 15	by separate fastener
	Nonmetallic	402.15	Screw threaded fastener
	<pre>Strip or blank material     shaping</pre>	402.16	Metallurgically attaching preform
898.057	Die-press shaping	402.17	Screw threaded preform
898.058	Having inner lining layer	402.18	By applying fluent material,
898.059	Having liner		e.g., coating, casting
	Anti-friction bearing or	402.19	By shaping, e.g., bending,
	component thereof		extruding, turning, etc.
898.061	Assembling of race, cage, and	402.21	Including heating
	rolling anti-friction members	403.1	.Scrap recovering or utilizing
898.062	Assembling of race and	403.2	Metalworking to consolidate
	rolling anti-friction members	103.2	scrap
898 063	With race making	403.3	Separating one material from
	Assembling of cage and	100.0	another
555.004	rolling anti-friction members	102 1	
202 065	With cage making	403.4	By burning or heating
		404	.During simulated operation or
	Race making	405	operating conditions
070.06/	Cage making	405	Temperature

406	.Center locating and shaping	426.1	.Disassembling
407.01	.With testing or indicating	426.2	With other than ancillary
407.02	Torquing threaded assemblage or		treating or assembling
407.03	determining torque hereinDetermining relative number of	426.3	With conveying of work or disassembled work part
107.03	threaded member rotations	426.4	By altering or destroying work
407.04	Using optical instrument		part or connector
	(excludes mere human	426.5	By applying force
	eyeballing)	426.6	To elastically deform work
407.05	Quantitative measuring or		part or connector
	gauging	428	.Assembling or joining
407.06	By radioactive tracing	429	Progressively advancing of work
407.07	By vibratory or oscillatory movement		assembly station or assembled portion of work
407.08	Pressure, force, or weight	430	Advancing work to successive
	determining		stations (i.e., assembly line)
407.09	With aligning, guiding, or	431	Advancing station
	instruction	432	Punching, piercing or reaming
407.1	Assisting assembly or		part by surface of second part
	disassembly	432.1	With shaping
408	.Of a slide fastener	432.2	Of first part
409	Of slider	433	By stringing
410	Of interlocking element	434	Retaining clearance for motion
411	.Obtaining plural composite		between assembled parts
	product pieces from	435	Between tube-forming helical
410	preassembled workpieces		coils
412	.Obtaining plural product pieces	436	Through resilient media
412	from unitary workpiece	437	By deforming interlock
413	Breaking through weakened portion	438	<pre>By folding part into plural   ears</pre>
414	Dividing through modified	439	By wrapping around
	portion	440	Of link closure
415	Dividing on common outline	441.1	Of sphere, i.e., ball, in
416	Coacting pieces		socket
417	Dividing sequentially from	441.2	Ball point pen making
	leading end, e.g., by cutting or breaking	442	Allowing assembled sphere to move in single plane only
418	.Providing transitory integral	443	Of flange into tubular socket
419.1	holding or handling portion .Shaping fiber or fibered	444	Outwardly deforming internally fitted rod
	material	445	Sizing mating parts during
419.2	.Magnetically shaping		final positional association
421.1	.Shaping by direct application of	446	With prestressing of part
	fluent pressure	447	By temperature differential
421.2	Explosively shaping		(e.g., shrink fit)
422	.Shaping container end to	448	Of skin on frame member
	encapsulate material	449	By flexing
423	.Utilizing transitory attached	450	Elastic joining of parts
	element or associated separate material	451	Confining elastic part in socket
424	Temporary protective coating, impregnation, or cast layer	452	Prestressing rod, filament or strand
425	.Shaping mating parts for reassembly in different positions	453	By snap fit

454	Of flexible wall, expansible	518	Joined to overlapping ends
	chamber devices (e.g.,		of plural rods
	bellows)	519	After thinning
455.1	Spaced wall tube or receptacle	520	By axially applying force
456	Of separate helix (e.g., screw	521	Surface interlocking
	thread)	522.1	Radially expanding part in
457	Ribbing		cavity, aperture, or hollow
458	With coating before or during		body
	assembling	523	Radially expanding internal
459	To roughen surface		tube
460	Subsequently coating	524	Peripheral edge joining of
461	With spreading of cable strands		abutting plates
462	Joining plate edge	524.1	Riveting
	perpendicularly to frame	525	By driven force fit
463	Peripheral joining of opposed	525.01	By applying separate fastener
	mirror image parts to form a	525.02	Multipart cooperating fastener
	hollow body	323.02	(e.g., bolt and nut)
464	Associating parts by use of	525.03	Nonthreaded
101	aligning means (e.g., use of a	525.03	At least one part is
	drift pin or a "fixture")	323.04	nonmetallic
465	Registering mating opposed	525.05	Fastener deformed after
405	tool parts (e.g., registering	525.05	
	a punch and a cooperating die)	F0F 06	application
466	By multiple cooperating	525.06	Riveting
400	aligning means	525.07	At least one part
167			nonmetallic
467	Sequentially associating parts	525.08	Nonresilient fastener
460	on stationary aligning means	525.09	At least one part nonmetallic
468	By manipulating aligning means	525.11	Threaded fastener
469	Assembling a subassembly, then	525.12	At least one part nonmetallic
	assembling with a second	525.13	With supplemental joining
	subassembly	525.14	Metal fusion joining
469.5	Metal deforming with	525.15	At least one part nonmetallic
	nonmetallic bonding	526.2	.With separating, localizing, or
505	Joining by deforming		eliminating of as-cast defects
506	Securing cup or tube between		from a metal casting (e.g.,
	axially extending concentric		anti-pipe)
	annuli	526.3	Compressing ingot while still
507	By expanding inner annulus		partially molten
508	By constricting outer annulus	526.4	Removing defects
509	Overedge assembling of seated	526.5	From center of ingot to leave
	part		hollow blank
510	By necking in cup or tube	526.6	After deforming
	wall	527.1	.Combined manufacture including
511	At cup or tube end		applying or shaping of fluent
512	By flaring inserted cup or		material
	tube end	527.2	Coating
513	By bending over projecting	527.3	And casting
	prongs	527.4	Subsequent to metal working
514	Of parallel side-by-side	527.5	Metal casting
	elongated members	527.6	Followed by cutting or
515	Inward deformation of aperture	J27.0	removing material
	or hollow body wall	527.7	
516	Hollow body is axially joined		Combined with rolling
-	cup or tube	530 557	Filling of opening
517	Joined to rod	557	.Shaping one-piece blank by
- •			removing material

FF0	Common and and the form to account 1	F.C.44	
558	Successive distinct removal	564.4	Comprising means to strip insulation from wire
F.F.O.	operations	564.5	
559	.Work holding	564.5	And means to stake electric
560 560.1	CONVERTIBLE METAL WORKING MACHINE		wire to commutator or armature in assembling of electric
	.Vise type		motor or generator
33 R	PLURAL DIVERSE MANUFACTURING APPARATUS INCLUDING MEANS FOR	564.6	And means to sever work from
	METAL SHAPING OR ASSEMBLING	301.0	supply
33.2	.Slide fastener or slide fastener	564.7	And means to machine product
33.2	element	564.8	To sever product to length
33.5	.Binding or covering and cutting	565	.Common reciprocating support for
33.52	Cutting covering material only	303	spaced tools
33.32	.Type of machine	566	.Including composite tool
26 R	Drill press	566.1	Including severing means
26 A	Drilling and other	566.2	To sever electric terminal
26 B	Portable	300.2	from supply strip
20 Б 27 R	Fortable	566.3	To trim electric component
27 K		566.4	Means comprising hand-
	Grinding attachment	300.4	manipulatable implement
29 27 A	Pulley or wheelConvertible	35.5	.With turret mechanism
27 A 27 B	Convertible	36	Multiple turret
		39	Tool turret
27 C 30	Lathe and tool	40	Rotary tool holder
	Planer	41	Sliding tool holder
34 R	.Forging and bending, cutting or	42	Fluid operated
24 7	punching	42	Cam operated
34 A	Fastener (zipper)	43	Longitudinal turret axis
34 B	Riveting	44	Transverse turret axis
34 C	Ball making	45	Lever operated
34 D	Wire working	46	Rack-and-pinion operated
561	.With means to feed work during	47	Screw operated
F.C.2	tool contact	48.5 R	Including rotating and/or
562	Including nonrotary flying tool .With means to feed work	40.5 K	locking means
563		49	Frictional and positive
	intermittently from one tool station to another	48.5 A	Lock means for tool or work
37 R	Stock turret	40.5 A	turrets
37 A	Swiss type	50	.Multiple-tool holder
37 A 38 R	Blank turret	51	Laterally movable stock holder
38 A	Rotary work - vertical axis	52	Axial tool and transversely
38 B	Rotary work - horizontal axis	32	movable slide rest
38 C	Stationary work	53	Rotary tool spindle
38 D	Belt drive	54	Longitudinally and transversely
38 E	Crankshaft	31	movable
38 F	Collapsible tube	55	Rotary tool spindle
38.9	Collapsible tube	56	Oscillating tool
564	.Separate tool stations for	56.5	.Including machining means
204	selective or successive	56.6	And work-holder for assembly
	operation on work	57	.Attachment
564.1	Including assembling or	64	.Speed controller
204.1	disassembling station	65	.Carriage stop mechanism
564.2	And means to machine work part	33 A	.Flash remover
J U I . Z	to fit cooperating work part	33 B	.Welding strip ends
564.3	And means to sever work prior	33 C	. Casting and working
J U I . J	to disassembling	33 D	.Tube making
	30 arbabbelimiting	ע ככ	. Tabe maning

33 E	.Covering	720	.With signal, scale, illuminator,
33 F	.Wire working		or optical viewer
33 G	.Radiator making	721	For work-holder for assembly or
33 H	.Printing plate		disassembly
33 J	.Turret	722	.Including means to provide a
33 K	.Assembly		controlled environment
33 L	.Armature	723	.Nuclear device
33 M	.Electrical connector or terminal	724	.Roller or ball bearing
33 N	.Tire valve or spark plug	725	Including deforming means
33 P	.Multiple station with conveyor	726	.Heat exchanger
33 Q	.Multiple stations working strip	726.5	Including means to manipulate
	material		heat exchanger tube bundle
33 S	.Continuous strip	727	Including deforming means
33 T	.Work on tubes	728	.Means to place sheath on
650	PLURAL DIVERSE MANUFACTURING		running-length core
	APPARATUS	729	.Means to assemble electrical
700	MEANS TO ASSEMBLE OR DISASSEMBLE		device
701	.With means to regulate operation	730	Storage cell or battery
	by use of templet, tape, card	731	Including deforming means
	or other replaceable	732	Motor or generator
	information supply	733	Means to assemble commutator
702	With comparator	734	Means to position insulation
703	Computer input	735	Means to stake wire to
704	Web or strand-carried		commutator or armature
	information supply	736	Including deforming means
705	.With means to test work or	737	Magnetic memory device
	product	738	Laminated device
706	.With randomly actuated stopping or disabling means	739	Means to fasten electrical component to wiring board,
707	Responsive to condition of work		base, or substrate
	or product	740	Chip component
708	Responsive to operative (e.g.,	741	Multilead component
	safety device, etc.)	742	Multiple station assembly
709	.With control means energized in		apparatus
	response to activator stimulated by condition sensor	743	Means to apply vacuum directly to position or hold work part
710	Including means to divert	744	Means to apply magnetic force
	defective work part		directly to position or hold
711	Multiple station assembly or		work part
	disassembly apparatus	745	Conductor
712	Including position sensor	746	Electrode
713	Responsive to timer	747	Terminal or connector
714	Responsive to work or work-	748	Assembled to wire-type
	related machine element		conductor
715	With means to fasten by	749	Means to simultaneously
	deformation		assemble multiple, independent
716	Self-piercing work part		conductors to terminal
717	With means to fasten by	750	Means comprising hand-
	elastic joining		manipulatable implement
718	With means to fasten by	751	Fastening by deformation
	frictional fitting	752	Fastening by elastic
719	Including means to apply		joining
	magnetic force directly to	753	Means to fasten by
	position or hold work		deformation

		<b>5</b> 00	- 6 1 . 1 . 61.
754	Means to fasten by elastic	790	By friction fit
	joining	791	.Multiple station assembly or
755	Multiple, independent		disassembly apparatus
	conductors	792	Including turret-type conveyer
756	Switch or fuse	793	Including converging conveyers
757	Means to simultaneously fasten	794	And primary central conveyer
	three or more parts	795	Means to fasten work parts
758	Means comprising hand-		together
	manipulatable implement	796	By deforming
759	Means to align and advance work	797	By elastic joining
	part	798	.Means to drive self-piercing
760	With work-holder for assembly		work part
761	Means to fasten by deforming	799	.Including assembly pallet
762	.Means to disassemble electrical	800	.Including provision to utilize
702	device	800	
763		0.01	thermal expansion of work
	Storage cell or battery	801	.Means to assemble or disassemble
764	Means comprising hand-		container and fluid component
	manipulatable implement	802	.Vehicle wheel
765	.Means to place traveler on ring	803	Railway wheel
	or ring on bobbin of a textile	804	.Tumbler lock
	machine	805	.Toy doll
766	.Slide fastener	806	.Film or tape cartridge
767	Means to assemble stop onto	807	.Crystal to watch or clock
	stringer	808	.Means to insert or extract pen
768	Means to assemble slider onto		point
	stringer	809	.With magazine supply
769	Means to assemble teeth onto	810	
. 02	stringer	010	And magnetic work-holder or
770	Disassembly means	011 0	positioner
770		811.2	Assembling means comprising
//1	.Means to interrelatedly feed		hand-manipulatable implement
	plural work parts from plural	812	One work part comprising
	sources without manual		living tissue
	intervention	812.5	Comprising driver for snap-
772	Box or pallet assembly means		off-mandrel fastener; e.g.,
773			
	Means to assemble container		Pop (TM) riveter
774	Means to assemble containerHandle to container	813	
		813	Pop (TM) riveter
774	Handle to container	813 814	Pop (TM) riveterOne work part comprising nut or screw
774 775	Handle to containerLabel to container		Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper
774 775	Handle to containerLabel to containerPressurized dispensing container	814	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clip
774 775 776	<ul><li>Handle to container</li><li>Label to container</li><li>Pressurized dispensing container</li><li>Hypodermic syringe</li></ul>		Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud
774 775 776 777 778	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid component	814 815	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire tread
774 775 776 777 778 779	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length work	814 815 816	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deforming
774 775 776 777 778	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting	814 815	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing
774 775 776 777 778 779 780	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supply	814 815 816 817	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing line
774 775 776 777 778 779 780	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe section	814 815 816 817 818	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming
774 775 776 777 778 779 780 781 782	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to article	814 815 816 817 818 819	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length work
774 775 776 777 778 779 780	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly	814 815 816 817 818 819 820	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core
774 775 776 777 778 779 780 781 782 783	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatus	814 815 816 817 818 819 820 821	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length work
774 775 776 777 778 779 780 781 782 783	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly	814 815 816 817 818 819 820	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core
774 775 776 777 778 779 780 781 782 783 784 785	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly palletIncluding turret-type conveyer	814 815 816 817 818 819 820 821	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work
774 775 776 777 778 779 780 781 782 783	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly pallet	814 815 816 817 818 819 820 821 822	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work .Including work conveyer
774 775 776 777 778 779 780 781 782 783 784 785	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly palletIncluding turret-type conveyer	814 815 816 817 818 819 820 821 822 823	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work .Including transporting trackAnd work carrying vehicle
774 775 776 777 778 779 780 781 782 783 784 785 786	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly palletIncluding turret-type conveyerIncluding converging conveyers	814 815 816 817 818 819 820 821 822 823 824 213.1	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work .Including transporting trackAnd work carrying vehicle .Valve applying or removing
774 775 776 777 778 779 780 781 782 783 784 785 786	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly palletIncluding turret-type conveyerIncluding converging conveyersAnd means to fasten work parts together	814 815 816 817 818 819 820 821 822 823 824	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work .Including transporting trackAnd work carrying vehicle .Valve applying or removingEngine valve unit puller or
774 775 776 777 778 779 780 781 782 783 784 785 786 787	Handle to containerLabel to containerPressurized dispensing containerHypodermic syringeIncluding fluid componentRunning-length workMeans including orbiting running-length work supplyPipe sectionAssembled to articleMultiple station assembly apparatusIncluding assembly palletIncluding turret-type conveyerIncluding converging conveyersAnd means to fasten work parts	814 815 816 817 818 819 820 821 822 823 824 213.1	Pop (TM) riveterOne work part comprising nut or screwOne work part comprising paper clipMeans to assemble tire stud into tire treadMeans to fasten by deformingFastening sinker to fishing lineMeans to fasten by deforming Running-length workAssembled on core .Including means to vibrate work .Including transporting trackAnd work carrying vehicle .Valve applying or removing

015		040 500	- 7 7
215	Engine valve spring compressor	243.522	Including near side fastener
216	(only)	242 522	shaping toolPneumatic- or fluid-actuated
	Plural spring engagement	243.523	
217	Screw operated		tool
218	Parallel or tong type, side		Liquid
	entrance		And gas
219	Lever operated	243.526	Having rotary drive
220	Single jaw or valve		mechanism
	engagement	243.527	Having allochiral actuating
221	Plier type		handles
221.5	To or from wheel rim of	243.528	Having repositionable
	resilient tire or tube		annulus engaging tool
221.6	Removal tool	243.529	Including near side fastener
222	.Piston ring inserter or remover		shaping tool
223	Plier-type operation	243.53	Riveter
224	With ring encirclement	243.54	Single header
225	.Spring applier or remover	243.55	Pipe joiner
226	Transmission spring		Clip applier
227	Helical spring	243.57	
228	Flat spiral spring (e.g., watch	243.58	Edge binding
220	or clock type)	244	.Puller or pusher means,
229	Circular spring	211	contained force multiplying
230	Leaf spring		operator
231	.Means to stake watch or clock	245	Hubcap and hub
231		246	Battery post and terminal
	Plier type	247	Cotter pin and cooperating
233	.Brake lining to brake shoe	247	member
234	.Tube and coextensive core	248	
235	.To apply or remove a resilient		Plier type means
	article (e.g., tube, sleeve,	249	Valve stem pin or key and
	etc.)	0.5.0	another member
235.5	Nipple to nursing bottle	250	Machine key and another member
236	Well protector to sucker rod	251	Arbor-type press means
237	.Coupling to conduit	252	Having fluid operator
237.5	.Loose-leaf sheet binder	253	Having wedge operator
238	.Compressing parts together face	254	Having percussion or explosive
	to face		operator
239	.Spreading parts apart or	255	Tube, sleeve, or ferrule
	separating them from face to		inserting or removing
	face engagement	256	Having screw operator
240	.By rotation of work part	257	C-frame
240.5	Means to insert or remove helix	258	Central screw, work-engagers
241	.Means to string		around screw
242	.Tool handle and tool	259	Work-engager arms along or
243	.Tool chuck and tool		parallel to screw
243.5	.Overedge assembling means	260	With arm connecting engaging
243.51	Belt-hook attacher		means
243.517	Annular work	261	Pivotal arms
243.518	With radially acting tool	262	Pivotal grippers on screw
	inside annular work	263	Tubular or tube segment forms
243.519	With second workpiece inside		work-engager
	annular work one workpiece	264	Screw threaded work-engager
	moved to shape the other	265	Movable grippers on screw
243 521	Comprising driver for snap-	266	Plate or bar forms work-
	off-mandrel fastener; e.g.,		engager engager
	Pop (TM) riveter		9~5~=
	- op (11., 11.0001		

267	Having lever operator	FOR	000	CLASS-RELATED FOREIGN DOCUMENTS
268	Plier type means			
269	.Means comprising piston ring			
	group contractor or holder			
270	.Means comprising hand manipulatable tool	DIGE	STS	
271	Aligner or center	DIG	1	METHOD OR APPARATUS INVOLVING
272	Tube with tube			ADHESIVE
273	Auto wheel with auto chassis	DIG	2	METHOD OR APPARATUS USING
274	Clutch plates			ALUMINUM
275	Means comprising impact	DIG	3	METHOD OR APPARATUS WITH BENDING
	receiving tool	DIG	4	METHOD OR APPARATUS WITH BRAZING
276	C-frame	DIG	5	METHOD OR APPARATUS WITH CASTING
277	Thread protector (e.g., wheel	DIG	6	METHOD OR APPARATUS WITH
	axle type)			CENTRIFUGAL CASTING
278	Hand gripper for direct push or	DIG	7	METHOD OR APPARATUS WITH CLEANING
	pull	DIG	8	METHOD OR APPARATUS WITH
279	Centrifugal separator			COMPOSITE CASTING
280	Tube sleeve or ferrule	DIG	9	METHOD OR APPARATUS WITH CUP
	applying or removing		-	FORMED AND BOTTOM REMOVED
281	Thread-tapping grip	DIG	10	METHOD OR APPARATUS WITH DIE
281.1	.With work-holder for assembly			CASTING
281.2	For assembling a luminescent	DIG	11	METHOD OR APPARATUS WITH DRAWING
	mantle	DIG	12	METHOD OR APPARATUS WITH
281.3	And assembling press (e.g.,			ELECTROPLATING
	truss assembling means, etc.)	DIG	13	METHOD OR APPARATUS WITH ELECTRIC
281.4	Having means to permit support			HEATING
	movement while work is thereon	DIG	14	METHOD OR APPARATUS WITH
281.5	.Including means to relatively			ENAMELING
	position plural work parts	DIG	15	FORMING ARTICLE ON END OF LONG
281.6	.Work-supported apparatus			STOCK AND THEN CUTTING OFF
282	.Tube, sleeve or ferrule	DIG	16	METHOD OR APPARATUS WITH ETCHING
283	.Work gripper, anvil, or element	DIG	17	METHOD OR APPARATUS WITH MAKING
283.5	.By deforming			FLOW LINES; CRYSTALS
284	MISCELLANEOUS APPARATUS	DIG	18	METHOD OR APPARATUS WITH FORGING
		DIG	19	METHOD OR APPARATUS WITH GRINDING
		DIG	20	METHOD OR APPARATUS FOR DOUBLE
				BLANK
CROSS-RI	EFERENCE ART COLLECTIONS	DIG	21	METHOD OR APPARATUS FOR HEATING
		DIG	22	METHOD OR APPARATUS USING INDIUM
900	METHODS AND APPARATUS FOR	DIG	23	METHOD OR APPARATUS WITH KNURLING
	ASSEMBLY BY ELECTROSTATIC	DIG	24	METHOD OR APPARATUS WITH LOCAL
	ATTRACTION			HEATING
901	BALANCING METHOD	DIG	25	METHOD OR APPARATUS WITH
902	FILTER MAKING			PARTICULAR MATERIAL
903	FIREARM BOLT MAKING	DIG	26	METHOD OR APPARATUS WITH
904	LAMINATED METAL ARTICLE MAKING			MACHINING
905	MAKING COIL WOUND WALL SCREEN	DIG	27	METHOD OR APPARATUS USING
906	NUCLEAR DEVICE MAKING			MAGNESIUM
		DIG	28	MAGNETIC RECORDING DIGEST
		DIG	29	MOLDING WITH OTHER STEP
		DIG	30	ORNAMENTING WITH OTHER STEP
FORETON	ART COLLECTIONS	DIG	31	PRESSING POWDER WITH OTHER STEP
_		DIG	32	ROLLING WITH OTHER STEP

DIG		SCORING WITH OTHER STEP	DIG		GAS AS A CONVEYOR
DIG	34	SCALING WITH OTHER STEP	DIG		AIR CURRENT GENERATED BY CUTTER
DIG	35	SHRINK FITTING WITH OTHER STEP	DIG	83	FAN COAXIAL WITH CUTTER
DIG	36	SHOT BLASTING WITH OTHER STEP	DIG	84	VACUUM EXHAUST TYPE
DIG	37	STAMPING WITH OTHER STEP	DIG	85	WITH FLUID CONTROL VALVE
DIG	38	SPOT WELDING WITH OTHER STEP	DIG	86	HOOD ENCASED CUTTER
DIG	39	SPRAYING WITH OTHER STEP	DIG	87	MULTIPLE FLUID PATHS
DIG	40	STRIPS OF REPEATED ARTICLES - CUT	DIG	88	BY PROJECTING, SQUIRTING OR
		UP LATER			DRIPPING
DIG	41	TAPER TUBE MAKING	DIG	89	GAS ENTRAINED LIQUID SUPPLY
DIG	42	TENSION APPLIED DURING WORKING	DIG	90	ELEVATED TANK SUPPLY
DIG	43	UPSETTING AND FLANGING TUBE END	DIG	91	PLURAL DISCHARGE OPENINGS
DIG	44	VACUUM	DIG	92	FLUID CHANNEL IN CUTTER
DIG	45	TITANIUM	DIG	93	PLURAL DISCHARGE LOCI
DIG	46	VIBRATION	DIG	94	DEBRIS REMOVER, CATCHER, OR
DIG	47	EXTRUDING WITH OTHER STEP			DEFLECTOR
DIG	48	WELDING WITH OTHER STEP	DIG	95	MAGNETIC OR ELECTROSTATIC
DIG	49	WORK HARDENING WITH OTHER STEP	DIG	96	MECHANICAL REMOVAL ASSISTANT
DIG	50	CUTTING FLUID APPLICATION AND	DIG	97	CUTTER ENGAGING CLEANER
		DEBRIS CONTROL	DIG	98	ROTATING, RECIPROCATING OR
DIG	51	POWER STOP CONTROL FOR MOVABLE			OSCILLATING CLEANER
		ELEMENT	DIG	99	FLEXIBLE CONVEYOR
DIG	52	CHIP BREAKER	DIG	100	SCREW OR CAM CONVEYOR
DIG	53	WORKPIECE AND DEBRIS SEPARATOR	DIG	101	PAN, BED, OR TABLE
DIG	54	FLUID CONTROL INTERRELATED WITH	DIG	102	DEBRIS CHUTE
		MACHINE TOOL MECHANISM	DIG	104	TOOL OR WORK ATTACHED
DIG	55	WITH CUTTER DRIVE	DIG	105	ASSEMBLY, MAGNETIC, OR INDICIA
DIG	56	WITH SHIELD OR HOOD MOVEMENTS			TOOL
DIG	57	WITH CUTTER FEED			
DIG	59	HOOD ACTUATED BY TOOL OR WORK			
		APPROACH			
DIG	60	PROGRESSIVE DISPLACEMENT OF HOOD			
DIG	61	PLURAL-TYPE DEBRIS REMOVERS			
DIG	62	RUBBING TRANSFER OF SOLID COATING			
		TO ROTATING ELEMENT			
DIG	63	FLUID CONVEYOR OR APPLICATOR			
DIG	64	AMBULATORY CUTTER WITH FLUENT			
		CONDUIT			
DIG	65	CUTTER CONTAINED SUPPLY RESERVOIR			
DIG	66	FLUID FLOW TO CHANNELED CUTTER			
		FLUID FLOW TO CHANNELED CUTTER ROTATING CUTTER			
DIG	67				
DIG DIG	67 68	ROTATING CUTTER			
DIG DIG DIG	67 68 69	ROTATING CUTTER HOLLOW SPINDLE CONTAINS			
DIG DIG DIG DIG	67 68 69	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER			
DIG DIG DIG DIG	67 68 69 70	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID			
DIG DIG DIG DIG	67 68 69 70	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR			
DIG DIG DIG DIG DIG	67 68 69 70 71 72	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER			
DIG DIG DIG DIG DIG	67 68 69 70 71 72 73	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY			
DIG DIG DIG DIG DIG DIG DIG DIG	67 68 69 70 71 72 73 74	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY CHAIN OR BELT CONVEYOR			
DIG DIG DIG DIG DIG DIG DIG DIG DIG	67 68 69 70 71 72 73 74 75	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY CHAIN OR BELT CONVEYOR PARTIAL IMMERSION OF CUTTER			
DIG	67 68 69 70 71 72 73 74 75	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY CHAIN OR BELT CONVEYOR PARTIAL IMMERSION OF CUTTER ADJUSTABLE LIQUID LEVEL			
DIG	67 68 69 70 71 72 73 74 75 76 77	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY CHAIN OR BELT CONVEYOR PARTIAL IMMERSION OF CUTTER ADJUSTABLE LIQUID LEVEL MOVABLE LIQUID-CARRYING TROUGH			
DIG	67 68 69 70 71 72 73 74 75 76 77	ROTATING CUTTER HOLLOW SPINDLE CONTAINS FLUID SPREADER CONTACTS CUTTER ROTARY OR OSCILLATING FLUID APPLICATOR COMPLETE IMMERSION OF CUTTER DIP OR SPLASH SUPPLY CHAIN OR BELT CONVEYOR PARTIAL IMMERSION OF CUTTER ADJUSTABLE LIQUID LEVEL MOVABLE LIQUID-CARRYING TROUGH WITH SEPARATOR OR FILTER			