2	BATTERY-GRID MAKING	16	RAILWAY-CHAIR MAKING
2.1	BIAS (I.E., HELICALLY) CUTTING OF	17.1	FOIL OR OTHER THIN SHEET-METAL
	TUBULAR STOCK		MAKING OR TREATING
2.11	.Including orbital cutter	17.2	.Method
2.12	Within stock support	17.3	Clad or other composite foil or
2.13	With orbiting strip accumulator		thin metal making
2.14	.Including means to inflate stock	17.4	With assembling or
2.15	.With means to feed stock along		disassembling of a pack
2.16	support or mandrelSingle means produces compound	17.5	Using transitory solid cover material
	motion	17.6	Including bond prevention 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	17.0	cutting
2.2	.With means to rotate and store	17.9	Using transitory material
	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
	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)
1.51	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	soap-pad maxing .Metal wool bundling	25.01	BARRIER LAYER OR SEMICONDUCTOR
4.56			DEVICE MAKING
	Soap-pad making	25.02	.Barrier layer device making
4.6	CORD HEDDLE MAKING	25.03	Electrolytic device making
5	COTTER-PIN MAKING		(e.g., capacitor)
6.01	CRANKSHAFT MAKING APPARATUS	25.35	PIEZOELECTRIC DEVICE MAKING
6.1	EXPANDED METAL MAKING	25.41	ELECTRIC CONDENSER MAKING
6.2	.By use of reciprocating	25.42	.Solid dielectric type
	perforator	76.1	FILING
7	EYEBOLT OR HOOK MAKING	76.2	.Of key article
7.1	FENCE BARB MAKING	76.3	.Continuous band type
7.2	.By use of reciprocating cutter		
	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	Interior surface
11	HINGE MAKING OR ASSEMBLING	81.03	.Rolling deformation or
12	LACING-STUD MAKING		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	Making disc drive
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
J0.5	across work surface		or coating
90.5	.Continuous feed	603.14	Plural magnetic deposition
90.6	.Of gear article		layers
90.7	.By shot peening or blasting	603.15	With etching or machining
91	UPHOLSTERED ARTICLE MAKING		of magnetic material
91.1	.Method	603.16	Machining magnetic material
_	1 4 4 4	000110	(e.g., grinding, etching,
91.2	Tufting		polishing)
91.3	With means to clench fastener	603.17	Employing workholding means
91.4	With means to insert guide pin	603.18	By etching
04 5	or fastener	603.19	Multitrack heads having
91.5	.Cover stretching	003.13	integral holding means
91.6	.Edge-roll forming	603.2	With bond/laminating
91.7	.Form or holder	003.2	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	003.21	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	603.25	
596	Dynamoelectric machine	603.26	
597	Commutator or slip ring	603.20	Preformed windingSpecified diverse magnetic
	assembly	003.27	materials
598	Rotor	604	
599	Superconductor		Data storage inductor or core
600	Antenna or wave energy	605	By winding or coiling
	"plumbing" making	606	By assembling coil and core
601	With other electrical	607	Including permanent magnet or
	component	600	core
602.1	Electromagnet, transformer or	608	From comminuted material
	inductor	609	Laminated
603.01	Magnetic recording reproducing	609.1	Acoustic transducer
	transducer (e.g., tape head,	610.1	Resistor making
	core, etc.)	611	Heater type
603.02	Including dissassembly step	612	Thermally variable

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		in base
.	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	0.40	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	0.51	path
621.1	Strain gauge making	851	With sintering of base
622	Switch making	852	By forming conductive walled
623	Fuse making	0.53	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	0.57	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
	device	0.5.0	insulating material
828	Co-axial cable	859	By shrinking of cover
829	On flat or curved insulated	860	By metal fusion bonding
	base, e.g., printed circuit,	861	By deforming
	etc.	862	Of ferrule about conductor
830	Assembling bases	0.63	and terminal
831	Assembling formed circuit to	863	Of terminal
000	base	864	With forming eyelet from
832	Assembling to base an	0.65	elongated conductor
	electrical component, e.g.,	865	With penetrating portion
000	capacitor, etc.	866	Through insulation
833	By utilizing optical	867	With insulation removal
024	sighting device	868	Assembling elongated
834	With component orienting		conductors, e.g., splicing,
835	And shaping, e.g., cutting	869	etcWith end-to-end orienting
026	or bending, etc.	870	9
836	Different components	670	Including fluid evacuating or pressurizing
837	By inserting component lead	871	
020	or terminal into base aperture	071	Including deforming of joining bridge
838	With deforming of lead or	872	With overlapping orienting
020	terminal	873	
839	Including metal fusion	0/3	Including oppositely facing end orienting
840	By metal fusion	874	Contact or terminal
841	With encapsulating, e.g.,	0/4	manufacturing
0.4.2	potting, etc.	875	By powder metallurgy
842	Assembling terminal to base	876	By assembling plural parts
843	By metal fusion bonding	877	With bonding
844	By deforming or shaping	878	Of fused material
		0/0	OI lused material

879 880	MetalBy impregnating a porous		Including casting or moldingIncluding rolling or die
0.04	mass		forming, e.g., drawing,
881	By elastic joining	000 074	punching
882	With deforming		Including coating or plating
883	With molding of insulation		Including grinding or honing
884	Forming array of contacts or	888.076	Including machining or angular
005	terminals	000 00	cuttingCrankshaft making
885	With coating		
886	Electret making		Connecting rod makingIncluding metallurgical
887	Insulator making	000.091	bonding metallurgical
888 888.01	Prime mover or fluid pump making	888 092	Including metal forging or die
888.01	I.C. (internal combustion) engine making	000.092	shaping
QQQ 011	Repairing, converting,	888.1	Camshaft making
000.011	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,	200.4	valve seat making
000.021	servicing or salvaging	888.41	Valve guide making
888 022	Scroll or peristaltic type	888.42	Repairing, converting,
	Screw or gear type, e.g.,	000.12	servicing or salvaging
000.023	Moineau type	888.43	Valve tappet making
888.024	Centrifugal type	888.44	Valve seat making
	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
	Piston making		Including extruding
	Repairing, converting,		Including casting
	servicing or salvaging		With assembly or composite
888.042	Multi-element piston making		article making
	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	000 00	stators, diaphragms, nozzles
	By coating or cladding	889.23	Shaping integrally bladed
888.049	Ring groove forming or	000 3	rotor
000 05	finishing	889.3 889.4	Axial blower or fan
888.05	Gudgeon pin, wrist pin, piston	889.5	Centrifugal blower or fan
000 051	pin, or boss therefor	889.6	Fluid coupling devicePropeller making
888.051	With other attaching provision	889.61	
000 06	for connecting rod	889.7	Utilizing hollow tube blankBlade making
888.06	Cylinder, cylinder head or engine valve sleeve making	889.71	Composite blade
999 061		889.72	Hollow blade
888.07	With liner, coating, or sleevePiston ring or piston packing		With cooling passage
300.07	making		Passage contains tubular
888.071	Including forging or hammering	505.122	insert
300.071	rorging or nammering	890	.Catalytic device making
		-	

890.01	.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
890.03	.Heat exchanger or boiler making		components
	Repairing, converting,	890.126	With material shaping or
0301031	servicing or salvaging		cutting
890.032	Heat pipe device making	890.127	Including molding or casting
	Solar energy device making		Including machining or
	Regenerator or recuperator	000.120	drilling
090.034	making	990 129	Including metallurgical
000 025		090.129	bonding
690.033	Cooling apparatus making, e.g.,	000 12	3
000 026	air conditioner, refrigerator		Including metal deforming
	Tube inside tube	890.131	Including metallurgical
	Tube wound about tube	000 100	bonding
890.038	Tube joined to flat sheet	890.132	Including metal shaping and
	longitudinally, i.e., tube		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		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	890.147	Return connector device making
	inflation	890.148	T-shaped fitting making
890.045	Tube with heat transfer means		
	Tube with heat transfer meansFinned tube		Elbow or L-shaped fitting
890.046		890.149	Elbow or L-shaped fitting making
890.046	Common fin traverses	890.149 890.15	Elbow or L-shaped fitting makingFerrule making or reforming
890.046 890.047	Finned tube Common fin traverses plurality of tubes	890.149 890.15 891	Elbow or L-shaped fitting makingFerrule making or reforming.Agricultural device making
890.046 890.047 890.048	Finned tubeCommon fin traverses plurality of tubesHelically finned	890.149 890.15	Elbow or L-shaped fitting makingFerrule making or reforming.Agricultural device makingTraction apparatus, e.g., for
890.046 890.047 890.048 890.049	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finned	890.149 890.15 891 891.1	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor
890.046 890.047 890.048 890.049	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece,	890.149 890.15 891 891.1 891.2	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard
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	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making Traction apparatus, e.g., for tractor Harvester guard .Pulley making
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	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly
890.046 890.047 890.048 890.049 890.05 890.051 890.052	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold making	890.149 890.15 891 891.1 891.2 892.8 892.1	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping
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	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley
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	890.149 890.15 891.8 891.1 891.2 892.8 892.1 892.11 892.2	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove
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	890.149 890.15 891 891.1 891.2 892.8 892.1	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
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 assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or	890.149 890.15 891 891.1 891.2 892 892.1 892.11 892.2	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
890.046 890.047 890.048 890.05 890.05 890.051 890.052 890.053 890.054 890.06	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	890.149 890.15 891.891.1 891.2 892.892.1 892.11 892.2	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
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	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 .Muffler, manifold or exhaust	890.149 890.15 891 891.1 891.2 892 892.1 892.11 892.2	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
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06 890.07	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	890.149 890.15 891 891.1 891.2 892.8 892.1 892.11 892.2 892.3	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 transmitting device
890.046 890.047 890.048 890.05 890.05 890.051 890.052 890.053 890.054 890.06	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	890.149 890.15 891 891.1 891.2 892.1 892.1 892.3 893.3 893.1 893.2	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
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.06 890.07 890.08	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	890.149 890.15 891 891.1 891.2 892.1 892.1 892.3 893.3	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 device
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06 890.07	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	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3 893.3 893.1	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 mountingGear shapingWorm gear
890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler 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	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3 893.3 893.1 893.2 893.3 893.31 893.32	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
890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08	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 .Tapping device making	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3 893.3 893.1	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 mountingGear shapingWorm gear
890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08	Finned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler 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	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3 893.3 893.1 893.2 893.3 893.31 893.32	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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890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08 890.11 890.11 890.12 890.121	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 .Fluid pattern dispersing device making .Valve or choke making .Repairing, converting,	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
051.521	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	Orthodontic device making
894.33	Tensioned spoke type wheel	896.2	.Sound device making
	making		3
894.331	Tensioning all spokes	896.21	Hearing aid component making
	simultaneously	896.22	Musical instrument or tuning
	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
074.344	single blank	896.34	Having crown, stem, or pendent
994 345	Individual spoke making	896.4	.Jewelry or locket making
		896.41	Human adornment device making
	Rim making		Bracelet making
	With assembling		Finger ring making
	Demountable rim making	896.42	
	Die-press shaping	090.42	Latch, clasp, or fastener
	Roller forming	006.40	component making
894.36	Hub making	896.43	Ornamental stock making
894.361	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
000.41	element assembled to core	22 2 2 2 2 2 2	absorber utility
QQE 211		897	.Structural member making
077.411	Work contacting surface wound	897.1	Restoring existing member,
OOE 010	about core	U	e.g., reinforcing, repairing
095.ZIZ	With prestressing of	897.15	
	component by heat		Grille making
	differential, e.g., shrink,	897.2	Vehicular structural member
	fit		making

007.3		000 060	D 11
897.3	Static structure, e.g., a		Roller making
007 31	building component		Ball making
897.31	Openwork, e.g., a truss,		Mounting
	joist, frame, lattice-type or	898.08	<u> </u>
007 310	box beam	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
898.01	Repairing	401.1	.Converting
898.02	Fluid bearing	402.01	.Repairing
898.03	Linear bearing	402.02	Seal or element thereof
898.04	Rotary bearing	402.03	With disassembling
898.041	Thrust bearing	402.04	Including reconditioning of
898.042	Plain bearing		part
898.043	Self-adjusting or self-	402.05	By shaping
	aligning, including ball and	402.06	Removing material
	socket type, bearing and	402.07	And by a metallurgical
	component making	102.07	operation, e.g., welding,
898.044	Deforming socket to secure		diffusion bonding, casting
	ball	402 08	Replacing of defective part
898.045	Die-press shaping	402.09	By attaching repair preform,
	Having liner	402.00	e.g., remaking, restoring, or
	Having liner		patching
	Socket making	402.11	_
	By molding or casting	402.11	Mechanically attaching
	Nonmetallic socket	402.12	
	By assembling	402.13	preform with separate fastener
	Ball making	402.13	Metallurgically attaching
	With metallurgical bonding	100 11	preform
	Sleeve or bushing making	402.14	Mechanically attaching preform
	Nonmetallic	400 15	by separate fastener
		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
898.06	Anti-friction bearing or component thereof	402.19	By shaping, e.g., bending, extruding, turning, etc.
898 N61	Assembling of race, cage, and	102 21	
090.001	rolling anti-friction members	402.21	Including heating
000 060		403.1	.Scrap recovering or utilizing
090.002	Assembling of race and rolling anti-friction members	403.2	Metalworking to consolidate
000 063		402.2	scrap
	With race making	403.3	Separating one material from
070.004	Assembling of cage and	402 4	another
000 065	rolling anti-friction members	403.4	By burning or heating
	With cage making	404	.During simulated operation or
	Race making	405	operating conditions
898.067	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
	determining torque herein	426.3	With conveying of work or
407.03	Determining relative number of		disassembled work part
	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
	preassembled workpieces		coils
412	.Obtaining plural product pieces	436	Through resilient media
	from unitary workpiece	437	By deforming interlock
413	Breaking through weakened portion	438	By folding part into plural ears
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	442	Allowing assembled sphere to
44.0	or breaking		move in single plane only
418	.Providing transitory integral	443	Of flange into tubular socket
440.4	holding or handling portion	444	Outwardly deforming
419.1	.Shaping fiber or fibered		internally fitted rod
410 0	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
101 0	fluent pressure	447	By temperature differential
421.2 422	Explosively shaping	4.4.0	(e.g., shrink fit)
422	.Shaping container end to encapsulate material	448	Of skin on frame member
423	.Utilizing transitory attached	449	By flexing
423	element or associated separate	450	Elastic joining of parts
40.4	material	451	Confining elastic part in socket
424	Temporary protective coating,	452	Prestressing rod, filament or
405	impregnation, or cast layer		strand
425	Shaping mating parts for reassembly in different	453	By snap fit
	positions		

4 E 4	05 51 11 11	E10	Talas A. E
454	Of flexible wall, expansible	518	Joined to overlapping ends
	chamber devices (e.g.,	E4.0	of plural rods
455 1	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		(e.g., bolt and nut)
464	Associating parts by use of	525.03	Nonthreaded
	aligning means (e.g., use of a	525.04	At least one part is
	drift pin or a "fixture")		nonmetallic
465	Registering mating opposed	525.05	Fastener deformed after
	tool parts (e.g., registering		application
	a punch and a cooperating die)	525.06	Riveting
466	By multiple cooperating	525.07	At least one part
	aligning means		nonmetallic
467	Sequentially associating parts	525.08	Nonresilient fastener
	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	
469.5	Metal deforming with	525.14	Metal fusion joining
	nonmetallic bonding		At least one part nonmetallic
505	Joining by deforming	526.2	.With separating, localizing, or
506	Securing cup or tube between		eliminating of as-cast defects
	axially extending concentric		<pre>from a metal casting (e.g., anti-pipe)</pre>
	annuli	526.3	
507	By expanding inner annulus	320.3	Compressing ingot while still
508	By constricting outer annulus	526.4	partially molten
509	Overedge assembling of seated		Removing defects
303	part part	526.5	From center of ingot to leave
510	By necking in cup or tube	F06 6	hollow blank
510	wall	526.6	After deforming
511	At cup or tube end	527.1	.Combined manufacture including
512	By flaring inserted cup or		applying or shaping of fluent
J12	tube end	505.0	material
E12		527.2	Coating
513	By bending over projecting	527.3	And casting
Г1 /	prongs	527.4	Subsequent to metal working
514	Of parallel side-by-side	527.5	Metal casting
E1E	elongated members	527.6	Followed by cutting or
515	Inward deformation of aperture		removing material
F1.C	or hollow body wall	527.7	Combined with rolling
516	Hollow body is axially joined	530	Filling of opening
E 4 D	cup or tube	557	.Shaping one-piece blank by
517	Joined to rod		removing material

F.F.O.		E C 4 4	~
558	Successive distinct removal	564.4	Comprising means to strip
F.F.O.	operations	F.C.4 F	insulation from wire
559	.Work holding	564.5	And means to stake electric
560	CONVERTIBLE METAL WORKING MACHINE		wire to commutator or armature
560.1	.Vise type		in assembling of electric
33 R	PLURAL DIVERSE MANUFACTURING	F.C.4C	motor or generator
	APPARATUS INCLUDING MEANS FOR	564.6	And means to sever work from
22.0	METAL SHAPING OR ASSEMBLING	F.C.4. 77	supply
33.2	.Slide fastener or slide fastener	564.7	And means to machine product
	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	5.6.6	spaced tools
	.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		from supply strip
27 R	Lathe	566.3	To trim electric component
28	Grinding attachment	566.4	Means comprising hand-
29	Pulley or wheel		manipulatable implement
27 A	Convertible	35.5	.With turret mechanism
27 В	Commutator	36	Multiple turret
27 C	Lathe and tool	39	Tool turret
30	Planer	40	Rotary tool holder
34 R	.Forging and bending, cutting or	41	Sliding tool holder
	punching	42	Fluid operated
34 A	Fastener (zipper)		Cam operated
34 B	Riveting	43	Longitudinal turret axis
34 C	Ball making	44	Transverse turret axis
34 D	Wire working	45	Lever operated
561	.With means to feed work during	46	Rack-and-pinion operated
	tool contact	47	Screw operated
562	Including nonrotary flying tool	48.5 R	Including rotating and/or
563	.With means to feed work		locking means
	intermittently from one tool	49	Frictional and positive
	station to another	48.5 A	Lock means for tool or work
37 R	Stock turret		turrets
37 A	Swiss type	50	.Multiple-tool holder
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		movable slide rest
38 C	Stationary work	53	Rotary tool spindle
38 D	Belt drive	54	Longitudinally and transversely
38 E	Crankshaft		movable
38 F	Collapsible tube	55	Rotary tool spindle
38.9	Endless belt	56	Oscillating tool
564	.Separate tool stations for	56.5	.Including machining means
J J I	selective or successive	56.6	And work-holder for assembly
	operation on work	57	.Attachment
564.1	Including assembling or	64	.Speed controller
J J 1 • 1	disassembling station	65	.Carriage stop mechanism
564.2	And means to machine work part	33 A	.Flash remover
501.2	to fit cooperating work part	33 B	.Welding strip ends
564.3	And means to sever work prior	33 C	.Casting and working
204.2	to disassembling	33 D	.Tube making
	co arbabbemorring	ע ככ	. Tube making

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 Т	.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- related machine element	748	Assembled to wire-type 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

754	Means to fasten by elastic	790	By friction fit
7	joining	791	.Multiple station assembly or
755	Multiple, independent conductors	792	disassembly apparatus
756		_	Including turret-type conveyer
	Switch or fuse	793	Including converging conveyers
757	Means to simultaneously fasten	794	And primary central conveyer
750	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 device	800	.Including provision to utilize thermal expansion of work
763	Storage cell or battery	801	.Means to assemble or disassemble
764	Means comprising hand-	001	container and fluid component
704	manipulatable implement	802	.Vehicle wheel
765	.Means to place traveler on ring	803	Railway wheel
703	or ring on bobbin of a textile	804	Rallway wheel .Tumbler lock
	machine		
766	.Slide fastener	805	.Toy doll
767		806	.Film or tape cartridge
707	Means to assemble stop onto stringer	807	.Crystal to watch or clock
768	Means to assemble slider onto	808	.Means to insert or extract pen
700	stringer	000	point
769	Means to assemble teeth onto	809	.With magazine supply
703	stringer	810	And magnetic work-holder or positioner
770	Disassembly means	811.2	Assembling means comprising
771	.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	Handle to container	813	One work part comprising nut
775	Label to container		or screw
776	Pressurized dispensing	814	One work part comprising paper
	container		clip
777	Hypodermic syringe	815	Means to assemble tire stud
778	Including fluid component		into tire tread
779	Running-length work	816	Means to fasten by deforming
780	Means including orbiting running-length work supply	817	Fastening sinker to fishing line
781	Pipe section	818	Means to fasten by deforming
782	Assembled to article	819	_
783	Multiple station assembly		.Running-length work
703	apparatus	820 821	Assembled on core
784	Including assembly pallet	822	.Including means to vibrate work
785	Including turret-type conveyer		.Including work conveyer
786	Including turret-type conveyers	823	Including transporting track
787		824	And work carrying vehicle
101	And means to fasten work parts together	213.1	.Valve applying or removing
788	By deforming	214	Engine valve unit puller or
789	By deforming By elastic joining		applier
, 0,5	···Dy crabere joining		

215	Engine valve spring compressor	243.522	Including near side fastener
216	(only)	042 E02	shaping tool
	Plural spring engagement	243.523	Pneumatic- or fluid-actuated
217	Screw operated		tool
218	Parallel or tong type, side		Liquid
	entrance	243.525	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	243.56	Clip applier
227	Helical spring	243.57	Binding or covering
228	Flat spiral spring (e.g., watch	243.58	Edge binding
220	or clock type)	244	.Puller or pusher means,
229	Circular spring		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	240	Plier type means
	article (e.g., tube, sleeve,	249	Valve stem pin or key and another member
025 5	etc.)	250	
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
	With radially acting tool	262	Pivotal grippers on screw
2:323	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-
_13.321	off-mandrel fastener; e.g.,		engager
	Pop (TM) riveter		- 9-9
	-E (,, 2-32		

		_		
267	Having lever operator	FOR 0	00	CLASS-RELATED FOREIGN DOCUMENTS
268	Plier type means			
269	.Means comprising piston ring			
	group contractor or holder			
270	.Means comprising hand manipulatable tool	DIGES	<u>TS</u>	
271	Aligner or center	DIG 1		METHOD OR APPARATUS INVOLVING
272	Tube with tube	DIG I	•	ADHESIVE
273	Auto wheel with auto chassis	DIG 2	,	
274	Clutch plates	DIG Z		METHOD OR APPARATUS USING
275	Means comprising impact	DTG 2		ALUMINUM
275	receiving tool	DIG 3		METHOD OR APPARATUS WITH BENDING
276	C-frame	DIG 4		METHOD OR APPARATUS WITH BRAZING
-		DIG 5		METHOD OR APPARATUS WITH CASTING
277	Thread protector (e.g., wheel axle type)	DIG 6)	METHOD OR APPARATUS WITH CENTRIFUGAL CASTING
278	Hand gripper for direct push or	DIG 7	7	METHOD OR APPARATUS WITH CLEANING
	pull	DIG 8	3	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 1	Ο	METHOD OR APPARATUS WITH DIE
281.1	.With work-holder for assembly	DIC I	- 0	CASTING
281.2	For assembling a luminescent	DIG 1	1	METHOD OR APPARATUS WITH DRAWING
	mantle	DIG 1		METHOD OR APPARATUS WITH
281.3	And assembling press (e.g.,	DIO I	- 4	ELECTROPLATING
	truss assembling means, etc.)	DIG 1	3	METHOD OR APPARATUS WITH ELECTRIC
281.4	Having means to permit support	DIO I		HEATING
	movement while work is thereon	DIG 1	1	METHOD OR APPARATUS WITH
281.5	.Including means to relatively	DIO I	. =	ENAMELING
	position plural work parts	DIG 1	5	FORMING ARTICLE ON END OF LONG
281.6	.Work-supported apparatus	DIG I		STOCK AND THEN CUTTING OFF
282	.Tube, sleeve or ferrule	DIG 1	6	METHOD OR APPARATUS WITH ETCHING
283	.Work gripper, anvil, or element	DIG 1	_	METHOD OR APPARATUS WITH MAKING
283.5	.By deforming	DIG I	- /	FLOW LINES; CRYSTALS
284	MISCELLANEOUS APPARATUS	DIG 1	0	METHOD OR APPARATUS WITH FORGING
204	middlimalood milmaliod	DIG 1	-	
		_		METHOD OR APPARATUS WITH GRINDING
		DIG 2	. 0	METHOD OR APPARATUS FOR DOUBLE
anoga n	BEEDENGE ADM COLLECTIONS	חדמ מ	1	BLANK
CRUSS-R.	EFERENCE ART COLLECTIONS	DIG 2		
0.00		_	_	METHOD OR APPARATUS USING INDIUM
900	METHODS AND APPARATUS FOR	DIG 2	_	
	ASSEMBLY BY ELECTROSTATIC ATTRACTION	DIG 2	4	METHOD OR APPARATUS WITH LOCAL HEATING
901	BALANCING METHOD	DIG 2	25	METHOD OR APPARATUS WITH
902	FILTER MAKING			PARTICULAR MATERIAL
903	FIREARM BOLT MAKING	DIG 2	6	METHOD OR APPARATUS WITH
904	LAMINATED METAL ARTICLE MAKING			MACHINING
905	MAKING COIL WOUND WALL SCREEN	DIG 2	27	METHOD OR APPARATUS USING
906	NUCLEAR DEVICE MAKING			MAGNESIUM
		DIG 2	8.8	MAGNETIC RECORDING DIGEST
		DIG 2	9	MOLDING WITH OTHER STEP
		DIG 3	0	ORNAMENTING WITH OTHER STEP
FOREIGN	ART COLLECTIONS	DIG 3	1	PRESSING POWDER WITH OTHER STEP
		DIG 3	32	ROLLING WITH OTHER STEP

DTC	2.2	GCODING WITH OWNED GMED	DTC	0.1	GIG IG I CONTENOD
DIG		SCORING WITH OTHER STEP	DIG	_	GAS AS A CONVEYOR
DIG	_	SCALING WITH OTHER STEP	DIG	-	AIR CURRENT GENERATED BY CUTTER
DIG			DIG		FAN COAXIAL WITH CUTTER
DIG		SHOT BLASTING WITH OTHER STEP	DIG	-	VACUUM EXHAUST TYPE
DIG	_	STAMPING WITH OTHER STEP	DIG		WITH FLUID CONTROL VALVE
DIG		SPOT WELDING WITH OTHER STEP	DIG		HOOD ENCASED CUTTER
DIG		SPRAYING WITH OTHER STEP	DIG	_	MULTIPLE FLUID PATHS
DIG	40	STRIPS OF REPEATED ARTICLES - CUT	DIG	88	BY PROJECTING, SQUIRTING OR
	4.4	UP LATER		0.0	DRIPPING
DIG		TAPER TUBE MAKING	DIG		GAS ENTRAINED LIQUID SUPPLY
DIG		TENSION APPLIED DURING WORKING	DIG		ELEVATED TANK SUPPLY
DIG	_	UPSETTING AND FLANGING TUBE END	DIG	_	PLURAL DISCHARGE OPENINGS
DIG		VACUUM	DIG	_	FLUID CHANNEL IN CUTTER
DIG		TITANIUM	DIG		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			
DIG	67	ROTATING CUTTER			
DIG	68	HOLLOW SPINDLE CONTAINS			
DIG	69	FLUID SPREADER CONTACTS CUTTER			
DIG	70	ROTARY OR OSCILLATING FLUID			
		APPLICATOR			
DIG	71	COMPLETE IMMERSION OF CUTTER			
DIG	72	DIP OR SPLASH SUPPLY			
DIG	73	CHAIN OR BELT CONVEYOR			
DIG	74	PARTIAL IMMERSION OF CUTTER			
DIG	75	ADJUSTABLE LIQUID LEVEL			
DIG	76	MOVABLE LIQUID-CARRYING TROUGH			
DIG	77	WITH SEPARATOR OR FILTER			
DIG	78	AIR BLAST AND/OR VACUUM CONVEYOR			
DIG	79	REMOVABLE DEBRIS RECEPTACLE			