1 R	MISCELLANEOUS	T
1 A	.Conveyors	1
1 B	.Platform cover turners	1
1 F	.Rubber shoe assembly	1
1 G	.Arch support forming and	1
	inserting	1
1 W	.Assembly machines	1
1 M	.Moccasin machines	1
4.1	COMBINED SOLE AND UPPER MACHINES	1
4.2	.Lasting with laying and/or	1
	leveling	1
4.3	.Inseam trimming	1
4.4	With welt beating	1
4.5	With horn-carried knife	1
4.6	.Shoe turning	1
7	LASTING MACHINES	1
7.1	.With vamp cutting	1
7.2	Slitting or notching	1
7.3	.Prewelted upper	1
7.4	End lasting only	
7.5	.Outturned upper, e.g.,	1
	stitchdown	
7.6	With nailing	1
7.7	With sewing	
7.8	End lasting only	1
7.9	.Draw wire type, e.g., wire	
	lasting	1
8.1	.With flexible conforming means	1
8.2	With wiper folder	1
8.3	.Rotated nipper or wiper	1
8.4	.Pronged wiper folder	7
8.5	.Nipper wiper	
8.6	With nailing	7
8.7	End lasting only	7
8.71	With binder applying	7
8.8	End lasting only	7
8.81	With binder applying	7
9	.Nipper stretcher	7
9.1	With sewing	7
10	Wiper folder	7
10.1	Multiple nippers	7
10.2	With nailing	7
10.21	With binder applying	7
10.3	Fed work	7
10.4	Downward pull	7
10.5	End lasting only	
10.6	With nailing	8
10.7	With parallel horizontally	~
	disposed camshaft and gripper	8
	operating overdraw rod, i.e.,	8
	continental type	8
10.71	With binder applying	8
10.8	End lasting only	8

11.2	With moiling
	With nailing
11.3	End lasting only
12	.Wiper folder
12.1	With nailing
12.2	Toe lasting only
12.21	With binder applying
12.3	Heel lasting only
12.4	Toe lasting only
12.41	With binder applying
12.5	Weel lasting only
13.1	.With nailing
13.2	.With sewing
14.2	.Sole hold-downs
14.3	.Upper clamps
14.4	End bands
14.5	.Nippers
15	LAST INSERTING MACHINES
15.1	DELASTING MACHINES
16	LASTING-FASTENER REMOVING
	MACHINES
16.1	SOLE-FLAP HEEL-BREAST COVERING
	MACHINES
16.2	.Combined and/or plural
10.2	operations
16.3	Flap laying and heel tread
10.5	clamping
16 1	
16.4	Laying flap on breast
16.5	.Splitting sole
16.6	.Trimming flap to breast outline
16.7	Heel-guided trimmer
70	SOLE AND/OR HEEL BURNISHING
	MACHINES
70.5	.Combined or plural diverse
73.5	With coating application
74.5	With indenting
75.5	Heel only
76.5	With edge trimming
77	.Rotary tool
78	.Reciprocating tool
78.5	Heel traverse
79	Hand guided
79.3	.Fixed tool
79.2	.Tools and/or tool heads
77.5	Rotary
79.5	SOLE AND/OR HEEL WAX POLISHING
	MACHINES
85	SOLE AND/OR HEEL EDGE TRIMMING
	MACHINES
85.1	.Combined or plural diverse
85.2	With sole peripheral channeling
85.3	Clamped work
85.4	With fastener inserting
85.5	Heel only

85.9	.Shank trimming only	28	Clamped work
86	.Clamped work	29	.Channel-flap layers
86.5	Sole edge only	30	.Channel-flap turners
86.6	Traveling cutter	31.5	.Heel-seal forming
86.65	Rotary table supported	31.6	Spring heel
86.7	Rotary cutter	32	.Peripheral indenting
87	Rotary cutter	32.1	With stitch finder
88	.Rotary cutter	39	.Sock-liner applying
89	Multiple cutter head	39.3	.Stitch picking and/or cutting
90	With adjustable rand guide and/	39.5	.Splicing half soles to outsoles
20	or guard	40	.Slitting
91	.Rotary cutter heads	40.5	.Shank pieces or stiffeners
92	Axially adjustable	41.05	.Grooving
93	With supplemental cutter	41.1	.Pliabilizing soles in a shoe
94	Inserted cutters	41.2	.Pliabilizing soles
95	Angularly adjustable	41.3	With fluid treatment
17 R	SOLE MACHINES	41.5	.Tempering
17.2	.Peripheral operation and	41.7	.Inside fastener end trimmers
±/•2	automatically bodily moved	17 A	.Sbicca-type sole
	shoe support	42 R	HEEL MACHINES
33	.Laying and/or leveling	50	.Assembling
33.1	With fastener inserting	50.1	With die cutting
33.2		50.2	With fastener inserting
33.4	With welt pressing means	50.2	With cement applying
33.6	With sole positioning means	50.4	Heel logs
33.7	Configured oscillating former	42.5	
55.7	indexed with sole	43	Fastener inserting and
33.8	Oscillating jack	73	breasting
34	With rotatable leveling	43.5	Fastener inserting and molding
51	pressure roll	46	.Seal cutting
34.5	With power-operated transverse	46.5	
51.5	roll tilting	40.5	.Spring heel beveling
35.5	Hammering and/or slicking		.Breasting
36	Multiple work supports	47.1	Uni-directionally moving
36.5	Traveling work support	48	cutting edge
50.5	carrying fluid pressure	40 49	.Molding
	applying means		.Beading
36.8	Rotary work support carrier	49.1 50.5	.Covering
37	Rotary work support carrier		.Removers
38	Pads or formers	42 B	.Heel affixing
18.1	.Assembling	51	UPPER MACHINES
18.2	Bulk shoe fillers	52	.Assembling
18.3	Shank pieces and/or stiffeners	52.5	.With diverse operations
18.5	.With diverse operations	53.1	.Assembled shoe shaping
18.7	With peripheral channeling	53.2	By expanding and conforming
18.9	With slitting	53.3	By conforming roller
20		53.4	By conforming impactor
20	.Applying or reinforcing separate rib	53.5	By conforming press action
20.2		53.6	By expander only
20.2	Full gemming	53.7	Wall-supported
21	.Blank molding	53.8	Reciprocating expander
22	Edge	54.1	.Loose upper shaping
24.5 27	.Edge covering	54.2	Toe only
41	.Peripheral channeling	54.3	Heel only

54.4	Crimping with former and wiper	114.6	Top stretchers
54.5	Belt-carried former	114.8	With top holder
54.6	Pivoted former	115.2	Spot stretchers
55	Folding	115.4	With cooperating exterior
55.1	With slitting or notching		former
57	.Turning	115.6	Variable expander
57.1	With seam pressing	115.8	Longitudinal and lateral
57.5	.Trimming	116.2	Longitudinal and lateral lo
57.6	Sole-attaching edge	116.4	Lateral lock
58	Skiving	116.6	Longitudinal lock
58.3	.Buttoning or unbuttoning	116.8	Lateral
58.5	Lacing or unlacing	117.2	Lock
59	.Strap covering	117.4	
59.5	.Tape appliers	119.5	.Upper crimping and stretching
59.7	.Tempering	120.5	.Sole straightening
61 R	TOE AND HEEL STIFFENER MACHINES	120.0	SHOEMAKERS' BENCHES
62	.Skiving	123	WORK SUPPORT
63	Recessed carrier	123.3	.For loose heels
64		123.5	.For boot trees
65	Roll	123.5	.Expansible holder
66	Separable	124	.Heel clamping
61 A	-	125	.Last jacks
	.Assembling		-
61 B	.With diverse operations	127 120 D	With saddle
67 R	WELT AND RAND MACHINES	128 R	FORMS
67.1	.Welt and rand formers	129.4	.Heated
67.2	.Welt beaters	133 R	.Lasts
67 A	.Welt guides	134	Preliminarily adjustable
67 B	.Combined welt preparing	135 R	Separate heel block
67 C	.Welt attaching to loose sole and	136 R	5
	heel	136 A	With movable instep block
67 D	.Plural diverse operations	136 B	With single link
67 E	.Welt beating and slitting	136 C	With double link
67 F	.Welt butting and attaching	135 A	With sliding movement
67 G	.Beaters	137	Instep-block fasteners
67 H	.Butting	138	Sliding bolt
67 J	.Forming	139	Heel plates and sockets
67 K	.Welt attaching	140	Peg receivers
67 L	.Welt tempering	141	Shoe retainers
103	TOOLS	133 A	With fillers
104	.Sole and/or heel burnishing	133 B	With altered surfaces
104.5	.Inside fastener end trimmers	133 C	With heel fastener receiving
107 R	.Lasting		means
108	Fastener holding and inserting	133 M	Material
	and upper stretching	128 B	.With deodorant, etc.
109	Upper tensioners and hammers	128 H	.For open-heel shoe
110	Upper tensioners	128 V	.Expanding vertical
111	Multiple transversely	128 C	.With upper retaining means
	positioned grippers	128 D	.With sole retaining means
112	Тое	128 E	.Heel plates
107 A	Over-lasted upper retainers	128 F	.With fastener receiving means
113	.Fly holders	142 R	PROCESSES
114.2	.Interiorly stretching assembled	145	.Lasting
	shoes	146 R	.Miscellaneous parts
114.4	Fluid expander	146 B	Soles
	-		

lock

12 - 4 CLASS 12 BOOT AND SHOE MAKING

146	BP	Prepared
146	BC	Channeling
146	BR	Rubber soles
146	С	Uppers
146	CK	Edge finishing
146	D	Toe and heel stiffeners
146	L	Last making
146	М	Orthopedic parts
146	S	Shank stiffener making and
		attaching
146	W	Welts and rands
147	R	.Heel
147	А	Rubber
147	В	Covering
148		.Filling shoes
142	А	.Evaginated shoe
142	В	.Thru-and-thru shoe
142	С	.Stitch-down shoe
142	D	.Welt-type shoe
142	_	.Rubber shoe
142	ΕV	.Rubber overshoe
142	F	.Cemented shoe
142	G	.Felt and fabric
142	J	.Interfitted sole and heel
142	K	.Protection of shoes
142	LC	.Lacing and closing
142	MC	.Moccasins
142	Ν	.Orthopedic
142	Ρ	.Athletic
142	Q	.Repairing
	RS	.Rubber sole attaching
142		.Sandals
142		.Sole-attaching
142		.Ventilated
142	W	.Leggings and gaiters

FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

DIG	1	LASTING	MACHINES,	FLUII	D-ACTUATED
DIG	2	LASTING	MACHINES,	DASH	POTS
DIG	3	JIGGING			