

## INSTRUCTIONS ON BUILDING A 36" WIDE HAND LOOM

A practical hand loom may be built by anyone mechanically minded and capable of following these directions and drawings. This type of loom is especially adapted to home construction because it utilizes standard size lumber and hardware.

To the prospective builder our drawings may seem complicated but really they are not after you have studied them. We have designed this loom in detail and there is no guess work. You can look at our drawings and find the exact dimensions for each piece.

Before starting to build this loom, take our raw stock sheets Nos. 7 and 8 and shop around your junk yard for pipe, steel pieces, bolts, nuts, etc. Also second hand lumber can be used. Get all lined up on your materials before you start. If you can't buy some of the parts locally, buy from us. We carry some of them in stock and will ship at once, see catalog.

This loom building is no doubt a spare time job but do not drag it out or you may lose the pleasure and interest in building it.

In building this loom, first make and assemble the frame on drawing No.2 and that will assist you with all the other parts because they are all attached to this frame. Next, build the rest of the frame as shown on drawing No.3. Next build the front and rear beams and it is very important that you drill the holes in the beams straight so that the axles will turn true. The pedals, part No.18. also lathe supports, part No. 11. are made by ripping a 2 x 4 as shown on drawings No.3 and 4. Next, make the heddle frames and other parts on drawing No.4. Next, make the parts on drawing No. 5 then you are ready to finish the assembly. The assembled loom is shown on drawing No. 1. The details on drawing No.6 are for accessories such as the comb to put on the warp, the shuttles to wind on the rags and the spool rack to put the warp on the rear beam. and the hook to thread the warp through the reed and heddles. The counter assists in putting the same amount of warp on each bout. We sell these parts complete, see catalog.

There are only three (3) parts necessary to buy: the ratchet No.69 reed No. 70 and heddles No.7, which can be purchased at reasonable prices. see catalog.

After completing your loom and accessories you are ready to place the warp on your loom for weaving. This is done by putting the spools on the spool rack and winding them on your rear beam then threading them through the heddles and reed and tying the warp to your apron. Part No. 51. If you have not previously woven, it is best to get a book on weaving, from your library, or we will furnish you the complete instruction<sup>8</sup> for warping your loom the different widths. For \$1.25 postage prepaid.

Looms have been built from these drawings and are now in use. Every precaution has been taken for accuracy but it is not guaranteed. If you find an error please write as we want to have these plans as perfect as possible. We want to assist you in building this loom and any questions of fact or admission will be answered if you enclose a 10¢ stamp. Other questions about making the loom different from our drawings will be answered to the best of our ability. for 50¢.

THE ORIENTAL RUG COMPANY

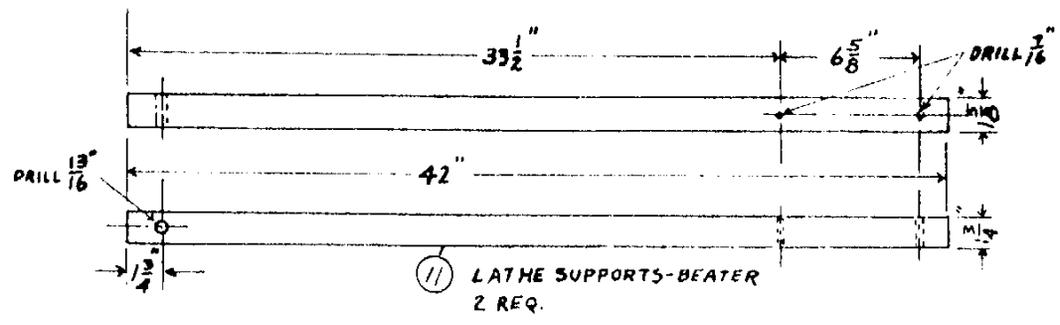
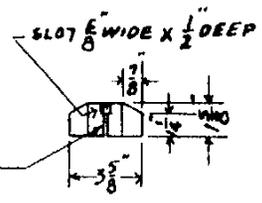
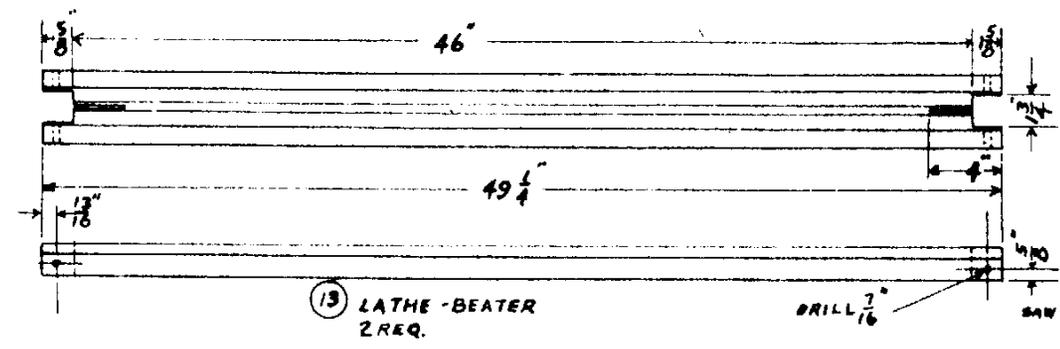
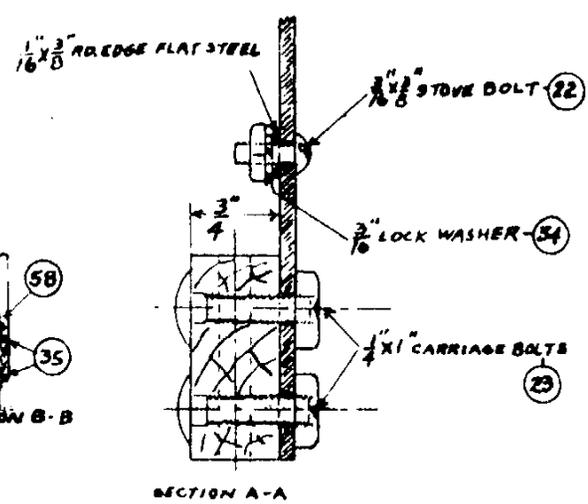
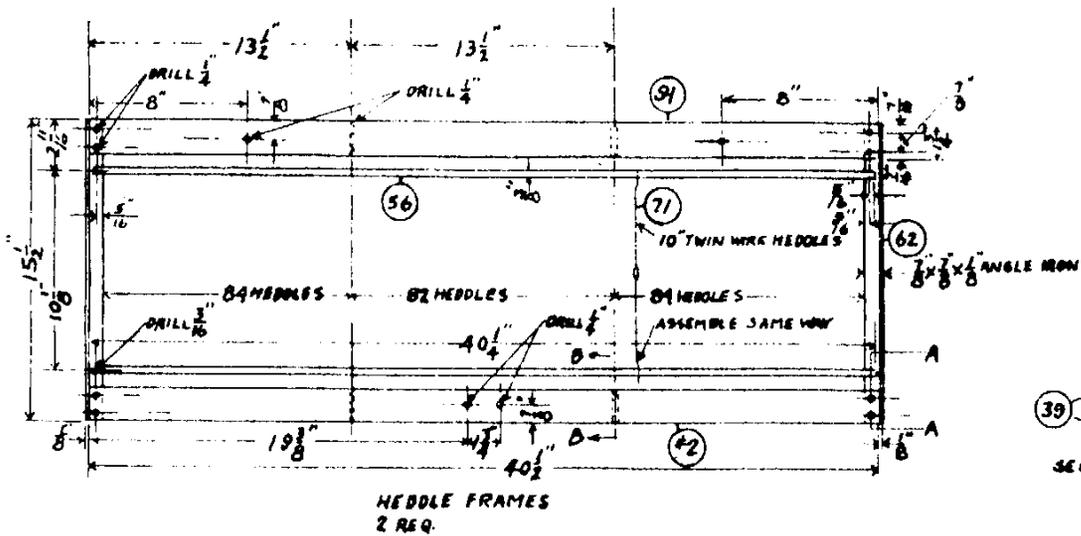
LIMA, OHIO

LM D2 5C8



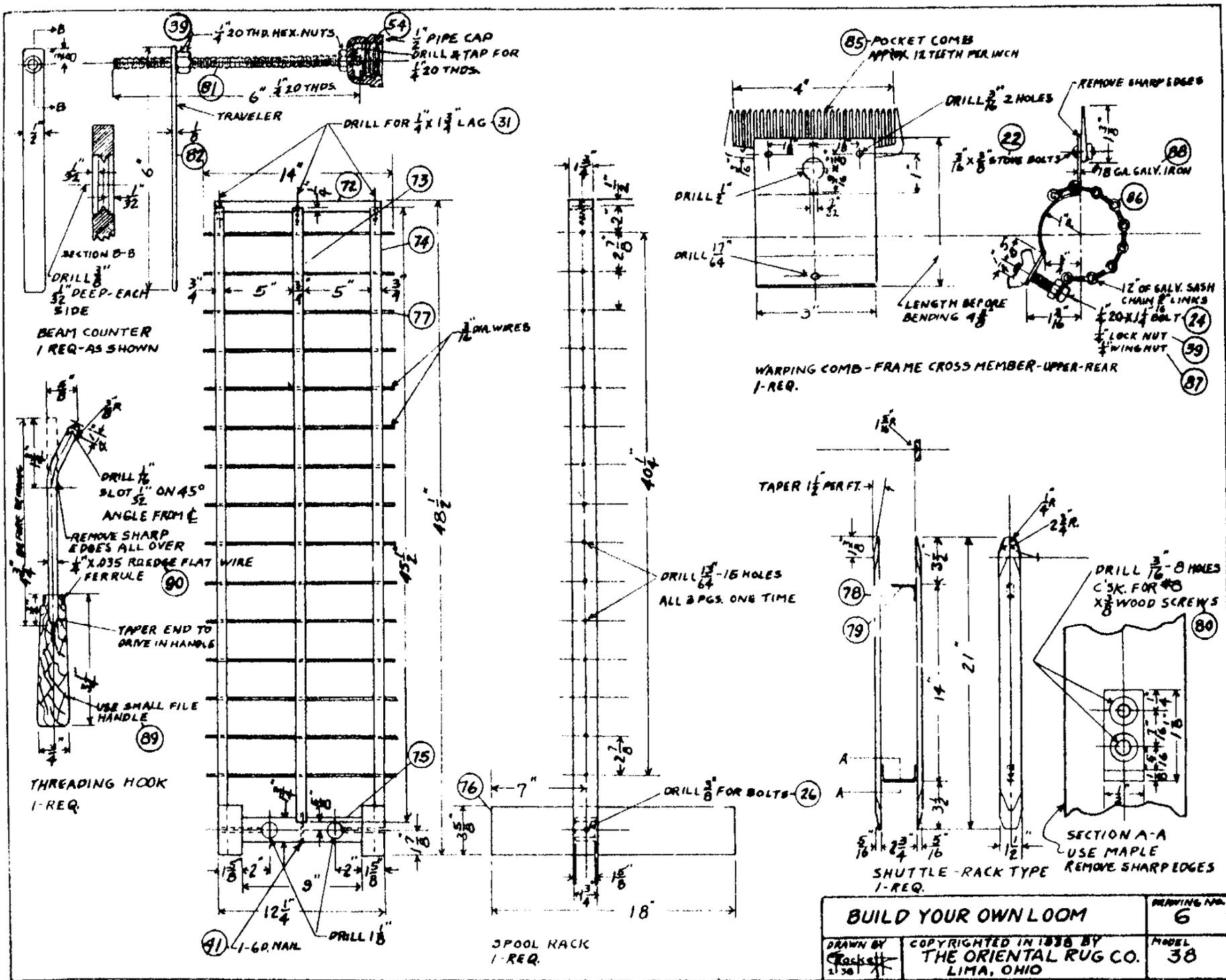






BUILD YOUR OWN LOOM		DRAWING NO. 4
DRAWN BY C. S. T. 11	COPYRIGHTED IN 1938 BY THE ORIENTAL RUG CO LIMA, OHIO	MODEL 3B

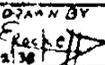




<b>BUILD YOUR OWN LOOM</b>		DRAWING NO. <b>6</b>
DRAWN BY C. Rickett 2/30/31	COPYRIGHTED IN 1936 BY <b>THE ORIENTAL RUG CO.</b> LIMA, OHIO	MODEL <b>38</b>

Am't. Req.	Description	Part No.	Size	Material	Dr. No.	Assemblies parts	Am't. Used
3	Group #1 Ringer blocks	1	3/4 x 1 3/4 x 3"	White Pine	2		
4	Heddle frame Cross pos. Lower	2	3/4 x 1 3/4 x 40 1/2"	"	4		
	Upper	3	3/4 x 2 5/8 x 45 3/4"	#1 Yellow Pine			
1	Frame Cross M. Front. Lower	4	1 5/8 x 1 3/4 x 1 1/2"	"	2		
4	Plug-Frame Cross pos. Upper	5	1 5/8 x 3 5/8 x 20 1/4"	"	2		
1	Latch-Bear Beam	5	1 5/8 x 3 5/8 x 21"	"	2		
2	Heddle Frame Roller Support	7	1 5/8 x 3 5/8 x 36"	"	2		
4	Frame Uprights-Right Front	8	"	"	2		
	-Left	9	"	"			
	-Right Rear	10	"	"			
	-Left	11	1 5/8 x 1 3/4 x 42"	"	4		
2	Lathe Supports-Better	12	1 5/8 x 3 5/8 x 45 3/4"	"	3		
1	Frame Cross M. Lower-bear	13	1 5/8 x 3 5/8 x 49 1/4"	"	3		
2	Lathe	14	1 5/8 x 3 5/8 x 51"	"	2		
4	Frame Supports-Right Upper	15	"	"	2		
	-Left	16	"	"			
	-Right Lower	17	"	"			
	-Left	18	1 5/8 x 1 3/4 x 52 5/8"	"	3		
2	Peddles	19	1 5/8 x 1 1/2 x 42 1/4"	"	3		
1	Rear beam Center Pc.	20	1 5/8 x 2 10/16 x 42 1/4"	"	3		
2	" Side pcs.	21	3 1/2 x 3 1/2 x 42"	"	3		
1	Front Beam	22	3 1/2 x 3 1/2 x 43 1/4"	"	3		
1	Heddle frame Roller	23	"	"	2		
	Group #2						
8	Round Head Steel Stove Bolts	24	3/16 x 3/8	Steel	4	52 & 56	8
16	Carriage Bolts	25	1/4 x 1"	"	4	62&5, 62&91	16
4	Machine Bolts	26	1/4 x 1 1/4"	"	1	91 & 49	4
8	Machine Bolts	27	3/8 x 2"	"	1	2 & 49	8
4	Carriage Bolts	28	3/8 x 4"	"	1	14&7, 7&16	4
4	Machine Bolts	29	3/8 x 6 1/2"	"	1	16&9, 12&10	4
2	" (without nuts)	30	3/8 x 7"	"	1	15 & 28	2
6	"	31	1/4 x 1 3/4"	"	1	19 & 92 & 94	6
2	Leg Bolts	32	3/8 x 4"	"	1	19 & 92 & 93	2
2	"	33	1 3/4 x #10	"	1	19 & 92	2
10	Flat Head Wood Screws	34	3/16"	"	4	6&14, 6&16	10
		35	1/4"	"	4	21 & 49	10
8	Lock Washers	36	3/8"	"	1	6 & 21	8
56	Wrought Washers	37	5/8"	"	2	1 & 4	56
52	Wrought Washers	38	7/8"	"	1	1 & 4	52
6	Wrought Washers	39	1/4"	"	1	16&11, 17&11	6
4	Wrought Washers	40	3/8"	"	1	16 & 5	4
18	Hex Steel Nuts	41	6 D (conny)	"	1	16 & 64	18
4	"	42	1/2" near x 7/8" lon;	"	3	93, 94	4
21	American Common Nails	43	20 D (conny)	"	3	58	21
11	Jalvanized Hooping Nails	44	1/2" near x 7/8" lon;	"	5	57	11
80	American Common Nails	45	20 D (conny)	"	3	57	80

**BUILD YOUR OWN LOOM**

DESIGNED BY  COPYRIGHTED IN 1938 BY THE ORIENTAL RUG CO. LIMA, OHIO

DRAWING NO. 7  
MODEL 38

Int. Req.	Description	Part No.	Size	Material	Dr. No.	Assemblies Parts	Ass. Used
2	Round Head Nuts	44	1/6 dia. x 1/2	Steel	5	63 & 64	2
1	Counter Nut Head Rivet	45	3/8 dia. x 3/4	"	5	67 & 68	1
2	Rubber Tacks	46	5/8" diameter	Rubber	2	1	2
4	Jalvanized Expansion Spring	47	1/4 x 4"	Steel	3	5	1
1	Cotter Key	48	3/16" x 1 1/4"	"	1	61 & 94	1
4	Straight Link Chain	49	1/8 x 1 3/16 links	"	1	21 & 91	2
1	Rope	50	1/4" x 4ft.	Cotton Rope	1	5 & 7	1
1	6 ounce Duck (Canvas)	51	36" wide x 39" long	Cotton	5	20 & 59	1
	Group #5						
4	Bushings	52	1/2 x 1 11/16	Black pipe	5	20 & 65	2
4	Beam Axles, Front	53	1/2 x 6"	"	3	39 & 65	1
1	" " Right Rear	93		"	3	19 & 65	1
1	" " Left	94		"	3	8 & 93	1
1	Beam Counter Support	56	1/2" pipe cap	Jalvanized Pipe	2	9410, 768	2
2	Frame Cross Member, Upper	55	1 1/2 x 4 1/2"	"	2		
	Group #4						
4	Heddle Bars	56	1/16 x 3/8 x 40 1/4	Round Edge Flat Steel	4		
2	Peddle U Bolts	57	1/4 x 3 1/4"	Cold Rolled Steel Hex Head	5		
8	Heddle Bar Support Bolts	58	1/4 x 3 7/8"	"	5		
1	Apron Rod	59	3/8 x 41"	"	5		
1	Frame Cross Member Tie Rods near Beam Crank	60	3/8 x 46 1/8"	"	2		
1	Heddle Frame Uprights	61	5/8 x 20"	"	2		
2	Redel Bracket Side Rods	62	7/8 x 7/8 x 1/8 x 15 1/2"	Steel Fillet Angles	4		
1	Front Beam Hatched Latch	63	1/8 x 1 1/2 x 8"	Hot Rolled Steel	5		
4	Beam Support Brackets (Redel Bracket Center rod)	64	1/8 x 1 1/2 x 6 1/4"	"	5		
1	Hatched handle Hook	65	1/8 x 1 1/2 x 13"	"	6		
1	Hatched handle Hook	66	1/8 x 1 1/2 x 13"	"	5		
1	Hatched handle Hook	67	1/4 x 1 x 9 5/8"	"	5		
1	Hatched handle Hook	68	1/4 x 1 1/2 x 20 7/8"	"	5		
	Group #6						
1	Hatched	69	7 1/2 dia. x 13 1/4"	Cast Iron	5		
1	Head	70	4 x 40 O. S. - 12 pitch	Steel Dents	1		
500	Heddles	71	10" stamed, twin wire	Steel wire #25 ga.	4		
	Group #6						
1	Spool Hook Upper Cross Rod	72	3/4 x 1 3/4 x 12 1/4"	White Pine	6		
1	" " Center Uprights	73	3/4 x 1 3/4 x 45 1/2"	"	6		
2	" " Side Uprights	74	3/4 x 1 3/4 x 48"	"	6		
1	" " Lower Cross rod	75	1 5/8 x 1 3/4 x 9"	#1 Yellow Pine	6		
2	" " Foot rods	76	1 5/8 x 5 5/8 x 18"	"	6		
3	L. bolts limit joint	31	1/4 x 1 3/4	Steel	6	72 & 73, 72 & 74	3
2	Machine Bolts	36	3/8 x 4"	"	6	75 & 74 & 75	2
1	American Common Nail	41	6 D.	"	1	75 & 73	1
3	Strout's saws	35	1/4"	"	6	72	3
4	" "	36	3/8"	"	6	74, 75	4
16	Spool Hook wires	77	3/16 x 14"	Hot Rolled Steel	6		
	Group #7						
2	Shuttle Side Pegs	78	5/16 x 1 1/2 x 21"	Maple	6		
2	" " Breaks	79	1/8 x 1/2 x 4 3/4"	Hot Rolled Steel	6		
8	Flat Head Wood Screws	80	3/8 x 6"	Steel	6	78 & 79	8
	Group #8						
1	Counter Rod	81	1/4-40 std. x 6"	Threaded Steel	6		
3	Hex. Steel Nuts	39	1/4-20	Steel	6	81	3
1	Counter Traveler	82	1/8 x 1/2 x 6"	Hot Rolled Steel	6		
	Group #9						
1	Comb Chain	85	4" (12 teeth per in. approx)	Aluminum	6		
1	Machine Bolt	86	3/8 Chain 9/16" links x 1 1/2"	Jalvanized Steel	6	85 & 87	1
1	Hex. Steel Nut	39	1/4 20 std. x 1 1/4	"	6	85 & 24	1
1	Wing Nut	87	1/4 20 std.	"	6	86 & 84	1
2	Stove Bolts	22	3/16 x 3/8	"	6	85 & 88	2
1	Comb Bracket	88	3" x 4 3/4" 18 ga.	Jalvanized Iron	6		
	Group #10						
1	Threading Hook Handle	89	3/4 dia. x 3 1/4	Wood	6		
1	Threading Hook - Blade	90	.035 x 1/4 x 6 3/4	Round Edge Flat Steel Wire	6		

**BUILD YOUR OWN LOOM**

DRAWN BY: *W. R. Richey*

COPYRIGHTED IN 1934 BY  
**THE ORIENTAL RUG CO.**  
LIMA, OHIO

DRAWING NO.  
**8**

MODEL  
**38**