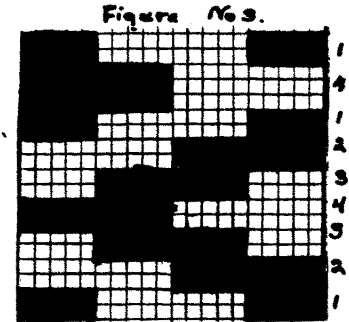
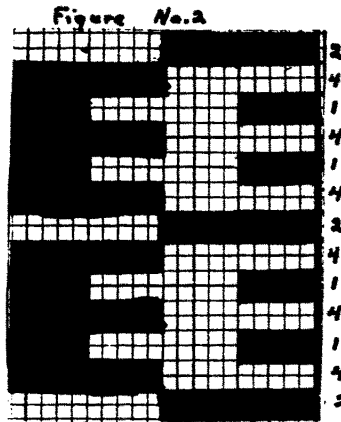
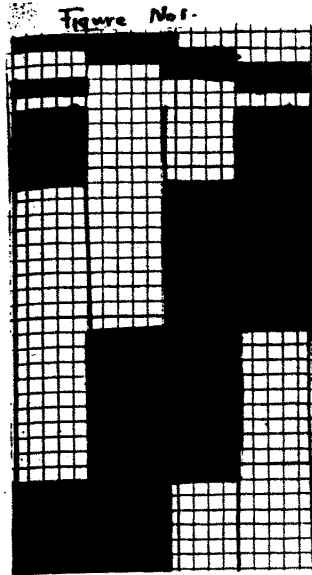


* HANDWEAVING NEWS *



DESIGNING "CRACKLE" WEAVE PATTERNS BASED ON TWILL ORDER.

SO CALLED "CRACKLE" WEAVE OR JAMTLANDSVAV, THE SCANDINAVIAN NAME, IS ALWAYS OF MUCH INTEREST TO HANDWEAVERS. THERE ARE SEVERAL REASONS FOR THIS. FIRST IT MAY BE WOVEN IN SO MANY DIFFERENT WAYS, AND SECOND IT HAS SO VERY MANY POSSIBILITIES FOR DESIGNING OF NEW AND ORIGINAL DESIGNS. THIS DESIGNING IS A BIT TRICKY DUE TO THE SMALL TWO THREAD PATTERN BLOCKS WHICH HAVE TO COME BETWEEN PATTERN BLOCKS OF THE THREADING DRAFT. BUT THE WEFT THREAD MAKES ONLY A THREE THREAD WARP SKIP, AND PATTERN BLOCKS CAN BE WRITTEN VERY LARGE AND THEY DO OVER-LAP EACH OTHER TO ADD INTEREST TO THE WOVEN EFFECT OF THE ARTICLE.

THIS NEWS IS GOING TO ATTEMPT TO SHOW HOW TO WRITE KEY DRAFTS AND THREADING DRAFTS BASED ON THE ORDER OF TWILLS AND SOME VARIATIONS. BACK ISSUES OF HANDWEAVING NEWS WHICH CONTAIN MORE INFORMATION ON THIS INTERESTING FORM OF TECHNIQUE IS CONTAINED IN FEBRUARY 1940, NOVEMBER 1940, MAY 1941, APRIL 1943, MAY 1944, AND SEPT 1945. THESE ARE AVAILABLE FOR 45¢ EACH IF ANYONE WISHES TO HAVE THEM.

KEY DRAFTS FOR THESE PATTERNS ARE SOMEWHAT DIFFICULT TO WRITE TO EXPRESS THE WOVEN PATTERN EXACTLY. THIS IS DUE TO THE SMALL TWO THREAD BLOCKS NECESSARY IN WRITING THE PATTERN THREADING DRAFT AND TO THE OVER-LAPPING OF EACH OF THE PATTERN BLOCKS. BUT THE PATTERN EFFECT DRAWING BELOW THE KEY DRAFT CAN SHOW HOW IT IS SUPPOSED TO BE WOVEN, AND HOW THE PATTERN BLOCKS OVER-LAP. FOR THIS, ONE SQUARE OF CROSS SECTION PAPER CAN BE USED FOR ONE PATTERN UNIT OF FOUR WARP THREADS. OR IF THE KEY DRAFT DESIGN IS VERY LARGE AND THE BLOCKS VERY LONG, ONE SQUARE OF CROSS SECTION PAPER CAN REPRESENT 3 OR EVEN 4 UNIT PATTERN BLOCKS OF FOUR WARP THREADS EACH. FOR THE PATTERN BLOCK UNITS, REFER TO FEBRUARY 1940 NEWS IF YOU ARE NOT ALREADY FAMILIAR WITH THEM.

AT FIGURE NO. 1 ABOVE WE HAVE THE KEY DRAFT FOR A THREADING DRAFT BASED ON THE TWILL ORDER, NAMELY PATTERN BLOCKS 1, 2, 3 AND 4 FOLLOWING EACH OTHER IN SUCCESSION. THIS KEY DRAFT IS FOR JUST ONE REPEAT FOR THE FULL WIDTH OF THE LOOM, AND CAN BE EXPANDED TO FULL SIZE AS REQUIRED FOR ANY ARTICLE TO BE WOVEN BY REPEATING THE PATTERN BLOCKS AS THEY OCCUR. COMPARE THIS KEY DRAFT WITH THE PATTERN THREADING DRAFT AND THE CHECK DRAFT BELOW IT ON PAGE 2, AND YOU WILL SEE THAT THE 6 UNIT PATTERN BLOCK ON HARNESSSES 1 & 2 ON THE THREADING DRAFT IS JUST A 5 UNIT BLOCK ON THE KEY DRAFT. IN THE SAME WAY THE 4 UNIT - 1 & 2 UNITS AT THE END OF THE THREADING DRAFT CAN ALSO BE MADE A 5 UNIT BLOCK TO BALANCE THE PATTERN EFFECT ON THE KEY DRAFT.

DRAW VERTICAL LINES DOWN FROM TOP TO BOTTOM OF THE SHEET OF CROSS SECTION PAPER THE SIZE OF EACH PATTERN BLOCK OF THE KEY DRAFT. THESE LINES WILL DEFINE THE WIDTH OF EACH OF THE BLOCKS. TRY TO CREATE DESIGNS ON THE PAPER WITHIN THE LIMITS OF THESE VERTICALS. YOU CAN REPEAT THE BLOCK AS FEW OR AS MANY TIMES DOWN AS YOU WISH. BUT THE WIDTH OF THE BLOCKS ARE ALWAYS WITHIN THE VERTICAL LINES. FIGURE NO. 1 HAS ALL OF ITS BLOCKS DRAWN DOWN SQUARE OR "AS DRAWN". THIS IS NOT AS INTERESTING AS TO MAKE THEM DIFFERENT WIDTHS AS IN FIGURES NO. 2 AND NO. 3. BUT IT DOES SHOW RELATIVE SIZE AND PROPORTION OF THE DIFFERENT BLOCKS.

FIGURE No.4 THREADING DRAFT FOR KEY DRAFT AT FIGURE No. 1, 2, AND 3.

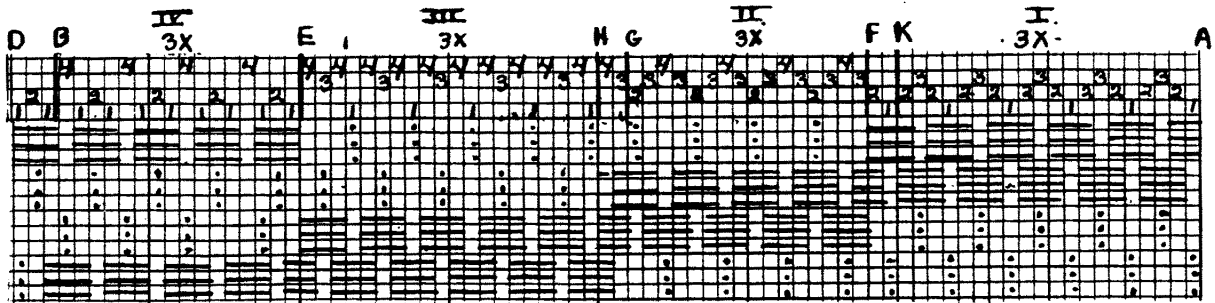
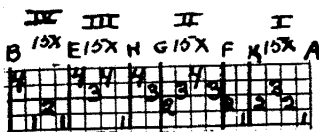


FIGURE No.5
SHORT THREADING DRAFT



AT FIGURE No.4 WE HAVE THE THREADING DRAFT AND ITS CHECK DRAFT BELOW WRITTEN OUT TO THE FULL SIZE OF THE KEY DRAFT ON PAGE 1. A TO B IS ONE REPEAT. B TO D IS A THREE THREAD BLOCK FOR THE END TO BALANCE THE 1&2 BLOCKS AT A. NOTE THE 2 THREAD BLOCKS AT THREAD 20 AND 22, AND AT THREAD 28 AND 30. THESE MUST BE ADDED TO MAKE THE PATTERN COME OUT CORRECTLY. NO EXTRA THREADS NEED TO BE ADDED BETWEEN THE 4&1 AND THE 1&2 PATTERN BLOCKS.

- STUDY CAREFULLY THE FOLLOWING POINTS ABOUT THIS THREADING DRAFT,-
1. AT THE BEGINNING AT A, THERE ARE 6 OF THE 1&2 PATTERN BLOCKS. FROM E TO B THERE ARE 4 1&2 PATTERN BLOCKS. IF THIS PATTERN THREADING IS USED AS A REPEAT, THE 4 UNITS AT THE END OF THE DRAFT AND THE 6 AT THE BEGINNING WILL MAKE A 10 UNIT PATTERN BLOCK ON 1&2.
 2. THERE ARE 10 OF THE 2&3 PATTERN BLOCKS. THE 2 THREAD BLOCK AT F IS COUNTED AS A FULL BLOCK TOO. FIVE OF THESE 2&3 BLOCKS OVERLAP THE 1&2 BLOCKS, AND 5 OVER-LAP THE 3&4 UNITS.
 3. IN THE SAME WAY, THERE ARE 10, 3&4 PATTERN BLOCKS. FIVE OF THESE OVER-LAP THE 2&3 PATTERN BLOCK AND 5 OVER-LAP THE 4&1 PATTERN BLOCK UNITS.
 4. THE SAME IS TRUE OF THE 4&1 PATTERN BLOCKS. NOTICE CAREFULLY HOW THE 4&1 BLOCKS JOIN WHEN THE PATTERN IS REPEATED. IT IS A GOOD IDEA TO WRITE OUT TWO REPEATS OF A THREADING DRAFT YOU HAVE MADE YOURSELF. I HOPE YOU ARE ALL GOING TO TRY THIS, IF YOU HAVE NOT DONE SO ALREADY. YOUR CHECK DRAFT WILL SHOW ANY MISTAKES, AND CARE IS NEEDED TO WRITE THESE DRAFTS CORRECTLY BEFORE THREADING THEM INTO THE LOOM.

SHORT METHOD OF WRITING THESE DRAFTS IS SHOWN AT FIGURE No.5. THE 15X MEANS TO REPEAT EACH PATTERN BLOCK UNIT 15 TIMES BEFORE GOING ON TO THE NEXT 2 UNIT BLOCK. THIS IS THE SIMPLEST WAY TO WRITE THESE THREADING DRAFTS. THEY FOLLOW THE ORDER OF TWILL, NAMELY PATTERN BLOCK 1, 2 3 AND 4. EACH UNIT OF THE DRAFT CAN BE REPEATED AS MANY TIMES AS DESIRED. HERE ALL OF THE PATTERN BLOCKS HAVE BEEN WRITTEN THE SAME SIZE FOR THE FULL WIDTH OF THE LOOM, AND THERE ARE ONLY FOUR OF THEM.

BUT DON'T STOP HERE. TRY WRITING THE PATTERN BLOCKS OF DIFFERENT SIZES. KEEP THE SAME ORDER OF THE TWILL AND HAVE NO EXACT REPEAT FOR THE FULL WIDTH OF THE LOOM. THIS GIVES YOU LARGE BLOCKS AND SMALL ONES AND PERMITS MUCH VARIATION IN THE WOVEN DESIGN.

OR YOU CAN WRITE THESE DRAFTS UP TO A CENTER, THEN REVERSE IT BACK TO THE BEGINNING IN THE SAME ORDER FOR ONE COMPLETE REPEAT FOR THE WIDTH OF THE LOOM. IF YOU WISH TO USE THE THREADING AT FIGURE No.4 ABOVE, THE THREAD ON HARNES 4 AT B, MAY BE USED AS THE CENTER OF THE DRAFT. ALWAYS WATCH CAREFULLY WHEN YOU DO THIS HOW YOU JOIN THE REPEATS. DRAW OUT A CHECK DRAFT TO BE SURE JUST WHAT HAPPENS ON THE THREADING DRAFT SO YOUR PROPORTIONS WILL BE GOOD.

FOR AN EXPERIMENTAL SAMPLER ON A WARP OF 240 THREADS OF 20/2 COTTON, ARRANGE THE THREADING DRAFT AT FIGURE No.4 AS FOLLOWS,-

THREAD SELVAGE	SELVAGE	HEDDLE COUNT				TOTAL					
		GROUP I	GROUP II	GROUP III	IV						
		2x	3x	3x	3x						
1,2,3,4,1,2,3,4	- 8 THREADS										
THREAD GROUP I - 3x20	-60 "	HAR 1	2	5	0	5	8	2	61		
THREAD 2 THREADS 1&2	- 2 "	" 2	2	10	1	4	0	2	4	1	60
THREAD GROUP II - 3x16	-48 "	" 3	2	5	8	1	5	0	59		
THREAD 2 THREADS 3&4	- 2 "	" 4	2	0	4	1	10	4	59		
THREAD GROUP III - 3x20	-60 "		8	20	16	20	16	239			
THREAD GROUP IV - 3x16	-48 "										
THREAD " 3 THREADS	- 3 "										
END SELVAGE 4,3,2,1,4,3,2,1,	-8 THREADS.										

THREAD EITHER 1ST OR LAST HEDDLE DOUBLE FOR A TOTAL OF 240 THREADS OF WARP.