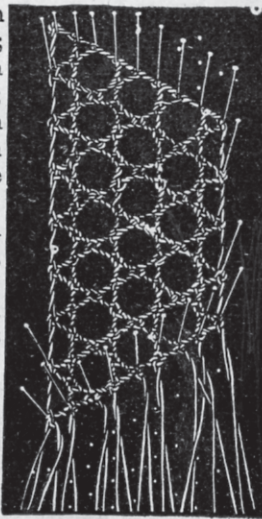
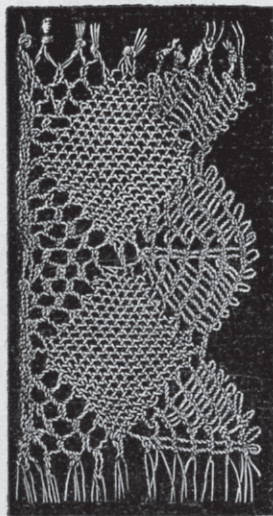
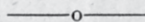


tw both pairs. Ht 1st and 2d, tw both pairs, pin in 2, close, tw both pairs; ht 2d and 3d, tw both pairs, pin in 3, close, tw both pairs; ht 4th and 5th, tw, pin in 4, close and tw; ht 3d and 4th, tw, pin in 5, close and tw; ht 2d and 3d, tw, pin in 6, and close and tw; ht 1st and 2d, tw, pin in 7, close and tw; ht 4th and 5th, tw, pin in 8, close and tw; ht 2d and 3d, tw, pin in 9, close and tw; ht 6th 7th, tw, pin in 10, close and tw; ht 5th and 6th, tw, pin in 11, close and tw; ht 4th and 5th, tw, pin in 12, close and tw; ht 3d and 4th, tw, pin in 13, close and tw; ht 2d and 3d, tw, pin in 14, close and tw; ht 1st and 2d, tw, pin in 15, close and tw; ht 6th and 7th, tw, pin in 16, close and tw; ht 4th and 5th, tw, pin in 17, close and tw; ht 2d and 3d, tw, pin in 18, close and tw; ht 8th and 9th, tw, pin in 19, close and tw; ht 7th and 8th, tw, pin in 20, close and tw; ht 6th and 7th, tw, pin in 21, close and tw; ht 5th and 6th, tw, pin in 22, close and tw; ht 4th and 5th, tw, pin in 23, close and tw; ht 3d and 4th, tw, pin in 24, close and tw; ht 2d and 3d, tw, pin in 25, close and tw; ht 1st and 2d, tw, pin in 26, close and tw; ht 8th and 9th, tw, pin in 27, close and tw; ht 6th and 7th, tw, pin in 28, close and tw; ht 4th and 5th, tw, pin in 29, close and tw; ht 2d and 3d, tw, pin in 30, close and tw. This makes a very pretty net, suitable for veils and similar purposes.



Lesson No. 13.
Rose Ground.

LESSON No. 14.



Lesson No. 14—Block Lace.

Block Lace. This pattern requires 40 bobbins, or 20 pairs, and Barbour's Irish flax thread, Nos. 80 or 90. Pin 3 pairs of threads in 64 and 79. 2 pairs, each, in 65, 66, 67 and 51, and 1 pair, each, in 68, 70, 72, 74, 76, 78. Begin with Brussels-Net Ground, at left of pattern. Wt 3d and 4th pairs, pin in 1, close with wt. Wt 5th and 6th, pin in 2, close. Wt 7th and 8th, pin in 3, close. Wt 2d and 3d, pin in 4, wt 1st and 2d, 2d and 3d; wt 4th and 5th, pin in 5, close. Wt 6th and 7th, pin in 6, close. Wt 3d and 4th, pin in 7, close. Wt 5th and 6th, pin in 8, close. Wt 2d and 3d, pin in 9. Wt 1st and 2d, 2nd and 3d. Wt 4th and 5th, pin in 10, close. Wt 3d and 4th, pin in 11, close. Wt 2d and 3d, pin in 12; wt 1st and 2d, 2nd and 3d.

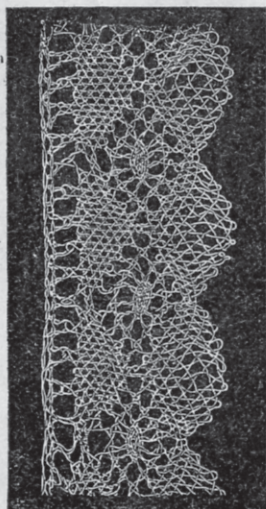
Scallop—Wt 18th and 19th, pin in 13, close. Wt 19th and 20th, pin in 16, close. Wt 18th and 19th, 17th and 18th, pin in 15, close. Wt to right, using 20th pair, pin in 18, close. Wt to left, using 16th pair, pin in 17, close. Wt to right, using 20th pair, pin in 20, close. Wt to left, using 15th pair, pin in 19, close. Wt to right, using 20th pair, pin in 22, close. Wt to left, using 14th pair, pin in 21, close. Wt to right, using 20th pair, pin in 24, close. Wt to left, using 13th pair, pin in 23,

close. Wt to right, using 20th pair, and lay aside scallop-threads without pinning.

Block.—Ht 11th and 12th, pin in 25, close. Ht 10th and 11th, 9th and 10th, pin in 26, close. Ht to right, using 13th pair, pin in 27, close. Ht to left, using 8th pair, pin in 28, close. Ht to right, using 14th pair, pin in 29, close. Ht to left, using 7th pair, pin in 30, close. Ht to right, using 15th pair, pin in 31, close. Ht to left, using 6th pair, pin in 32, close. Ht to right, using 16th pair, pin in 33, close. Ht to left, using 5th pair, pin in 34, close. Ht to right, using 17th pair, pin in 35, close. Ht to left, using 4th pair, pin in 36, close. Ht to right, using 18th pair, pin in 37, close. Ht to left, using 3d pair, pin in 38, close.

The middle or widest part of the Block having now been reached, the decreasing or narrowing begins. This is accomplished by leaving off a pair at either side, until the Block is completed, thus:—Ht 10th and 11th, pin in 51, close. Work Brussels Net-Ground at left of pattern. Work first-half of Scallop, Thus:—Wt 19th and 20th, pin in 69, close. Wt 18th and 19th, 17th and 18th, 16th and 17th, 15th and 16th, 14th and 15th, 13th and 14th, pin in 68, close. Wt to right, using 20th pair, pin in 71, close. Wt to left, using 14th pair, pin in 70, close. Wt to right, using 20th pair, pin in 73, close. Wt to left, using 15th pair, pin in 72, close. Wt to right, using 20th pair, pin in 75, close. Wt to left, using 16th pair, pin in 74, close. Wt to right, using 20th pair, pin in 77, close. Wt to left, using 17th pair, pin in 76, close. Wt to right, using 20th pair, pin in 79, close. Wt to left, using 18th pair, pin in 78, close. Wt 19th and 20th, pin in 80, close. Wt to left, using 12th pair, pin in 81, close. Wt to right, using 20th pair, pin in 84, close. Repeat from the beginning of instructions.

LESSON No. 15.



Lesson No. 15.
Diamond Antique Edging.

Diamond Antique Edging. This pattern requires 34 bobbins, or 17 pairs, and Barbour's Irish flax thread, No. 120. Pin 6 pairs of threads in 54, 3 pairs in 59, and 20, 2 pairs in 57, and 1 pair each in 35, 50, and 45. Cte 10th and 11th, 9th and 10th, 8th and 9th. Cte 11th and 12th, 10th and 11th, 9th and 10th. Cte 12th and 13th, 11th and 12th, 10th and 11th. Twist twice the pairs, 8th to 13th, inclusive. Wt 13th and 14th, pin in 1, close. Wt 12th and 13th, pin in 2, close. Wt 11th and 12th, pin in 3, close. Wt 7th and 8th, pin in 4, close. Wt 8th and 9th, pin in 5, close. Wt 9th and 10th, pin in 6, close. Wt 10th and 11th, pin in 7, close. Ht 6th and 7th, pin in 8, close. Ht 5th and 6th, 4th and 5th, pin in 9, close. Ht 5th and 6th, 6th and 7th, 7th and 8th, pin in 10, close. Ht to left, using 3d pair, pin in 11, close. Make edge thus:—Wt 2d and 3d, ht 1st and 2d, pin in 13, close with ht, wt 2d and 3d. Ht 4th and 5th, 5th and 6th, 6th and 7th, 7th and 8th, 8th and 9th, pin in 12, close. Ht to left, using 4th pair, pin in 14, close. Ht to right, using 10th pair, pin in 15, close. Ht to left, using 3d pair, pin in 16, close. Make edge as directed, pinning in 18, close. Ht

4th and 5th, 5th and 6th, 6th and 7th, 7th and 8th, 8th and 9th, 9th and 10th, and lay aside. Ht 14th and 15th, pin in 20, close. Ht 15th and 16th, 16th and 17th, pin in 21, close. Ht to left, using 13th pair, pin in 22, close. Ht to right, using 17th pair, pin in 23, close. Ht to left, using 12th pair, pin in 24, close. Ht to right, using 17th pair, pin in 25, close. Ht to left, using 11th pair, pin in 26, close. Ht to right, using 17th pair, pin in 27, close. Ht to left, using 10th pair, pin in 17, close. Ht to right, using 17th pair, pin in 38, close. Ht to left, using 11th pair, pin in 39, close. Ht to right, using 17th pair, pin in 40, close. Ht to left, using 12th pair, pin in 41, close. Ht to right, using 17th pair, pin in 42, close. Ht to left, using 13th pair, pin in 43, close. Ht to right, using 17th pair, pin in 44, close. Ht to left, using 14th pair, pin in 45, close. Ht to right, using 17th pair, pin in 46, close. Ht to left, using 15th pair, and lay aside 3 pairs. Ht 9th and 10th, 8th and 9th, 7th and 8th, 6th and 7th, 5th and 6th, 4th and 5th, pin in 19, close.

Ht to right, using 10th pair, pin in 28, close; ht to left, using 3d pair, pin in 29, close. Make edge, pinning in 30. Ht 4th and 5th, 5th and 6th, 6th and 7th, 7th and 8th, 8th and 9th, pin in 31, close; ht to left using 4th pair, pin in 32, close; ht to right, using 8th pair, pin in 33, close; ht to left, using 3d pair, pin in 34, close. Make edge, pinning in 37; ht 4th and 5th, 5th and 6th, 6th and 7th, pin in 35, close; ht to left, using 4th pair, pin in 36, close; ht 3d and 4th, pin in 55, close. Make edge, pinning in 56; ht 4th and 5th, 5th and 6th, and lay aside these threads. Wt 10th and 11th, pin in 47, close; wt 9th and 10th, pin in 48, close; wt 8th and 9th, pin in 49, close; wt 7th and 8th, pin in 50, close; wt 11th and 12th, pin in 51, close; wt 12th and 13th, pin in 52, close; wt 13th and 14th, pin in 53, close.

Twist once, the pairs, 8th to 13th, and then make a "spider," pinning center in 54; ht 5th and 6th, 4th and 5th, pin in 57, close; ht 3d and 4th, pin in 58, close. Make edge, pinning in 59. Repeat instructions, beginning at "wt, 13th and 14th, pin in 1," etc.

LESSON No. 16.

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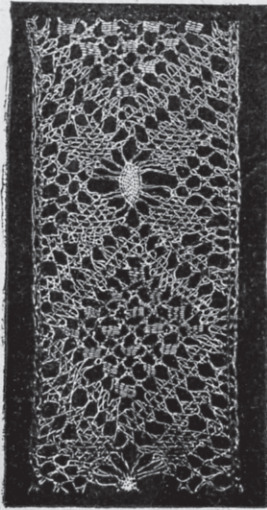
Jewel Insertion. This pattern requires 44 bobbins, or 22 pairs, and should be made of Barbour's Irish flax thread, not coarser than

No. 120. Pin 3 pairs of threads, each, in A and R, and 1 pair each in the other letters at top of pattern. It is always most convenient to begin an Insertion in the middle of the pattern, and to do so, in this instance, work net-ground on upper left side of jewel square, thus:—

Ht 11th and 12th, pin in 1, close; ht 10th and 11th, pin in 2, close; ht 11th and 12th, pin in 3, close; ht 10th and 11th, 9th and 10th, pin in 4, close; ht 10th and 11th, pin in 5, close; ht 9th and 10th, 8th and 9th, pin in 6, close; ht 9th and 10th, pin in 7, close; ht 8th and 9th, 7th and 8th, pin in 8, close; ht 8th and 9th, pin in 9, close; ht 7th and 8th, 6th and 7th, pin in 10, close; ht 7th and 8th, pin in 11, close; ht 6th and 7th, 5th and 6th, pin in 12, close; ht 6th and 7th, pin in 13, close; ht 5th and 6th, 4th and 5th, pin in 14, close; ht 5th and 6th, pin in 15, close; ht 4th and 5th, 3d and 4th, pin in 16, close; ht 4th and 5th, pin in 17, close; ht 3d and 4th, wt 2d and 3d, ht 1st and 2d, pin in 18, close, wt 2d and 3d.

Work net ground, on upper right side of jewel-square, thus:—ht 12th and 13th, pin in 19, close; ht 13th and 14th, pin in 20, close; ht 12 and 13th, pin in 21, close; ht 13th and

14th, 14th and 15th, pin in 22, close; ht 13th and 14th, pin in 23, close; ht 14th and 15th, 15th and 16th, pin in 24, close; ht 14th and 15th, pin in 25, close; ht 15th and 16th, 16th and 17th, pin in 26, close; ht 15 and 16, pin in 27, close; ht 16th and 17th, 17th and 18th, pin in 28, close; ht 16th and 17th, pin in 29, close; ht 17th and 18th, 18th and 19th, pin in 30, close; ht 17th and 18th, pin in 31, close; ht 18th and 19th, 19th and 20th, pin in 32, close; ht 18th and 19th, pin in 33, close; ht 19th and 20th, wt 20th and 21st, ht 21st and 22d, pin in 34, close; wt 20th and 21st; ht 19th and 20th, pin in 35, close; wt 20th and 21st, ht 21st and 22d, pin in un-numbered dot on edge, close, wt 20th and 21st.



Lesson No. 16—Jewel Insertion.

To make a "Jewel." For the first-one, select the 11th and 12th pairs. Pass right bobbin of 11th pair, over left bobbin of 12th pair, under right bobbin of 12th pair, back over right and under left bobbins of 12th pair, over left bobbin of 11th pair. Make this "weave," four more times, holding the three "passive bobbins" in the left hand, with threads drawn taut, and holding the shuttle or "working" bobbin in the right hand. When the weaving is done, be very careful not to injure the shape of the "jewel" by pulling on the shuttle thread, but draw the jewel to place by using the three passive threads for the purpose. Twist both pairs once. Wt 10th and 11th pairs, pin in 36, close. With 9th and 10th pairs, make a "jewel," as above. Wt 8th and 9th, pin in 37, close. With 7th and 8th, make a "jewel," wt 6th and 7th, pin in 38, close. With 5th and 6th pairs, make a "jewel." Ht 12th and 13th, pin in 39, close. Ht 11th and 12th, pin in 40, close. Ht 10th and 11th, pin in 41, close. Ht 9th and 10th, pin in 42, close. Ht 8th and 9th, pin in 43, close. Ht 7th and 8th, pin in 44, close. Ht 6th and 7th, pin in 81, close.

Beginning with 13th and 14th pairs, make another row of four jewels, pinning in 45, 46, 47. Beginning with 14th and 15th pairs, ht to left, diagonally pinning in 48, 49, 50, 51, 52, 53 and 82. Beginning with 15th and 16th, make another row of four jewels, pinning in 54, 55 and 56. Beginning with 16th and 17th, ht to left, pinning in 57, 58, 59, 60, 61, 62 and 83. Beginning with 17th and 18th, make another row of jewels, pinning in 63, 64 and 65. Ht 19th and 20th, 18th and 19th, pin in 68, close. Ht 19th and 20th, pin in 66, close. Ht 18th and 19th, 17th and 18th, pin in 69, close. Ht 18th and 19th, pin in 70, close. Ht 17th and 18th, 16th and 17th, pin in in 71, close. Ht 17th and 18th, pin in 72, close. Ht 16th and 17th, 15th and 16th, pin in 73, close. Ht 16th and 17th, pin in 74, close. Ht 15th and 16th, 14th and 15th, pin in 75, close. Ht 15th and 16th, pin in 76, close. Ht 14th and 15th, 13th and 14th, pin in 77, close. Ht 14th and 15th, pin in 78, close. Ht 13th and 14th, 12th and 13th, pin in 79, close. Ht 13th and 14th, pin in 80, close. Ht 12th and 13th.

To make net-ground on lower left of the jewel-square, ht 3d and 4th, pin in 84, close. Wt 2d and 3d, ht 1st and 2d, pin in 85, close; wt 2d and 3d, ht 3d and 4th, 4th and 5th, pin in 86, close. Ht 3d and 4th, pin in 87, close. Ht 4th and 5th, 5th and 6th, pin in 88, close. Ht 4th and 5th, pin in 89, close. Ht 5th and 6th, 6th and 7th, pin in 90, close.

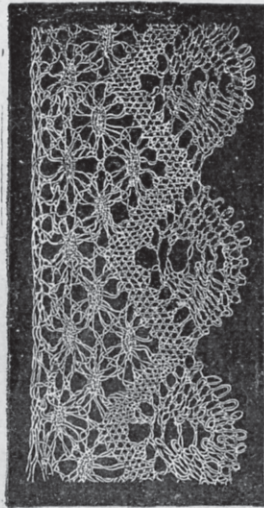
Ht 5th and 6th, pin in 91, close; ht 6th and 7th, 7th and 8th, pin in 92, close; ht 6th and 7th, pin in 93, close; ht 7th and 8th, 8th and 9th, pin in 94, close; ht 7th and 8th, pin in 95, close; ht 8th and 9th, 9th and 10th, pin in 96, close; ht 8th and 9th, pin in 97, close; ht 9th and 10th, 10th and 11th, pin in 98, close; ht 9th and 10th, pin in 99, close; ht 10th and 11th, 11th and 12th, pin in 100, close; ht 10th and 11th, pin in 101, close; ht 11th and 12th, 12th and 13th, pin in 102, close; ht 11th and 12th, pin in 103, close. Wt 2d and 3d, ht 1st and 2d, pin in 104, close. Wt 2d and 3d, ht 3d and 4th, pin in 105, close. Wt 2d and 3d, ht 1st and 2d, pin in 106, close. Wt 2d and 3d, ht 3d and 4th, 4th and 5th, pin in 107, close; ht 3d and 4th, pin in 108, close; ht 4th and 5th, 5th and 6th, pin in 110, close; ht 4th and 5th, pin in 111, close; ht 5th and 6th, 6th and 7th, pin in 114, close; ht 5th and 6th, pin in 115; ht 6th and 7th.

Wt 2d and 3d, ht 1st and 2d, pin in 109, close. Wt 2d and 3d; ht 3d and 4th, pin in 112, close. Wt 2d and 3d, ht 1st and 2d, pin in 113, close. Wt 2d and 3d, ht 3d and 4th, 4th and 5th, pin in 116, close. Ht 3d and 4th, pin in 117, close. Ht 4th and 5th, wt 2d and 3d, ht 1st and 2d, pin in 118, close. Wt 2d and 3d, wt 20th and 21st, ht 21st and 22d, pin in 119, close. Wt 20th and 21st, ht 19th and 20th, pin in 119, close. Wt 20th and 21st, ht 21st and 22d, pin in 120, close. Wt 20th and 21st, ht 19th and 20th, 18th and 19th, pin in 121, close; ht 19th and 20th, pin in 122, close; ht 18th and 19th, 17th and 18th, pin in 124, close; ht 18th and 19th, pin in 125, close; ht 17th and 18th, 16th and 17th, pin in 128, close; ht 17th and 18th, pin in 129, close; ht 16th and 17th, wt 20th and 21st, ht 21st and 22d, pin in 123, close. Wt 20th and 21st; ht 19th and 20th, pin in 126, close. Wt 20th and 21st, ht 21st and 22d, pin in 127, close. Wt 20th and 21st. Ht 19th and 20th, 18th and 19th, pin in 130, close; ht 19th and 20th, pin in 131, close; ht 18th and 19th, wt 20th and 21st, ht 21st and 22d, pin in 132, close. Wt 20th and 21st.

Net-Ground Square:—Ht 15th and 16th, pin in 133, close. With this beginning make a square, ending with, ht 15th and 16th, pin in 144, close. Make a square on the left side, beginning with, ht 7th and 8th, pin in 145, and ending with ht 7th and 8th, pin in 156. Make hole-ground and selvage on either side, beginning on the left with, ht 4th and 5th, pin in 157, close, and ending with, ht 1st and 2d, pin in 172, close. Wt 2d and 3d. On the right begin the hole-ground with ht 19th and 20th, pin in 173, close, and end with, ht 21st and 22d, pin in 186, close. Wt 20th and 21st. Twist once, the pairs 8th to 15th inclusive, and with them make a "spider," pinning in 187. Tw twice, the pairs used. Make a net-ground square, beginning with 7th and 8th, pin in 188, ending with ht 7th and 8th, pin in 199. Make a net-ground square, beginning with ht 15th and 16th, pin in 200, ending with ht 15th and 16th, pin in 211. Ht 4th and 5th, 6th and 7th; ht 16th and 17th, 18th and 19th, ht 19th and 20th, pin in 212, close; ht 18th and 19th, pin in 214, close; ht 19th and 20th, wt 20th and 21st, ht 21st and 22d, pin in 213, close. Wt 20th and 21st; ht 19th and 20th, pin in 215, close. Wt 20th and 21st, ht 21st and 22d, pin in 216, close. Wt 20th and 21st; ht 17th and 18th, pin in 217, close; ht 16th and 17th, pin in 221, close; ht 17th and 18th, 18th and 19th, pin in 218, close; ht 17th and 18th, pin in 222, close; ht 18th and 19th, 19th and 20th, pin in 219, close; ht 18th and 19th, pin in 223, close; ht 13th and 20th, wt 20th and 21st, ht 21st and 22d, pin in 220, close. Wt 20th and 21st; ht 19th and 20th, pin in 224, close. Wt 20th and 21st, ht 21st and 22d, pin in 225, close. Wt 20th and 21st; ht 3d and 4th, pin in 226, close; ht 4th and 5th, pin in 228, close; ht 3d and 4th, wt 2d and 3d, ht 1st and 2d, pin in 227, close. Wt 2d and 3d, ht 3d and 4th, pin in

229. Wt 2nd and 3d, ht 1st and 2d, pin in 230, close. Wt 2d and 3d, ht 5th and 6th, pin in 231, close; ht 6th and 7th, pin in 235, close; ht 5th and 6th, 4th and 5th, pin in 232, close; ht 5th and 6th, pin in 236, close; ht 4th and 5th, 3d and 4th, pin in 233, close; ht 4th and 5th, pin in 237, close. Ht 3d and 4th, wt 2d and 3d, ht 1st and 2d, pin in 234, close, wt 2d and 3d. Ht 3d and 4th, pin in 238, close. Wt 2d and 3d, ht 1st and 2d, pin in 239, close. Wt 2d and 3d. Repeat instructions from the first.

LESSON No. 17.



Lasson No. 17--Spider Lace.

Spider Lace. This pattern requires 46 bobbins, or 23 pairs, and Barbour's Irish flax thread, No. 150. Pin 3 pairs of threads, each, in 124, 125 and 49. 4 pairs each, in 127 and 73, and 2 pairs each in 63, 66 and 70. Cte 2d and 3d, ht 1st and 2d, pin in 1, close. Cte 2d and 3d. This line describes the manner of making the upper edge and does not need repetition. Wt 3d and 4th, pin in 2, close. Wt 4th and 5th, pin in 3, close. Wt 5th and 6th, pin in 4, close. Wt 10th and 11th, pin in 9, close. Wt 9th and 10th, pin in 8, close. Wt 8th and 9th, pin in 7, close. Wt 7th and 8th, pin in 6, close. Wt 6th and 7th, pin in 5, close. Wt 11th and 12th, pin in 10, close. Wt 12th and 13th, pin in 11, close. Wt 13th and 14th, pin in 12, close.

Begin Net-Ground, thus:—Ht 18th and 19th, pin in 13, close. Ht 19th and 20th, 20th and 21st, 21st and 22d, 22d and 23d, pin in 14, close. Ht to left, using 17th pair, pin in 15, close. Ht to right, using 22d pair, pin in 16, close. Ht to left, using 16th pair, pin in 17, close. Ht to right, using 21st pair, pin in 18, close. Ht to left, using 15th pair, pin in 19, close. Ht to right, using 20th pair, pin in 20, close. Ht to left, using 14th pair, pin in 21, close. Ht to right, using 19th pair, pin in 22, close. Ht to left, using 14th pair, and lay these threads aside without pinning.

Make edge, pinning in 23. Ht 3d and 4th, 4th and 5th, pinning in 24, and to close, ht 3d and 4th, 4th and 5th. Wt 5th and 6th, pin in 25, close. Make edge, pinning in 26. Wt 4th and 5th, pin in 27, close. Wt 3d and 4th, pin in 28, close. Make edge, pinning in 29. Tw once the pairs, 8th to 13th, inclusive, and with them make a "spider," pinning center in 30. Twist twice the pairs used, when the spider is completed.

Wt 7th and 8th, pin in 31. Wt 8th and 9th, pin in 32, close. Wt 9th and 10th, pin in 33, close. Twist once the pairs, 4th to 9th, and with them make a spider, pinning in 34. Wt 3d and 4th, pin in 35, close. Wt 4th and 5th, pin in 36, close. Wt 5th and 6th, pin in 37, close. To resume the net-ground figure. Ht 13th and 14th, pin in 43, close. Ht to right, using 18th pair, pin in 44, close. Ht to left, using 12th pair, pin in 45, close. Ht to right, using 17th pair, pin in 46, close. Ht to left, using 11th pair, pin in 47, close. Ht to right, using 16th pair, pin in 48, close. Ht to left, using 10th pair, pin in 49, close. Ht to right, using 15th pair, pin in 73, close. Ht to left, using 11th pair, pin in 74, close. Ht to right, using 15th pair, and lay aside these threads. Wt 9th and 10th, pin in 38,

close. Wt 8th and 9th, pin in 39, close. Wt 7th and 8th, pin in 40, close. Wt 6th and 7th, pin in 41, close. Make edge, pinning in 42. Ht 3d and 4th, 4th and 5th, pin in 89, and to close, ht 3d and 4th, 4th and 5th. Make edge, pinning in 90. Wt 5th and 6th, pin in 98, close. Wt 4th and 5th, pin in 99, close. Wt 3d and 4th, pin in 100, close. Make edge, pinning in 101.

Scallop:—Wt 16th and 17th, pin in 50, close. Wt to right, using 23d pair, pin in 51, close. Wt to left, using 17th pair, pin in 52, close. Wt to right, using 23d pair, pin in 53, close. Wt to left, using 18th pair, pin in 54, close. Wt to right, using 23d pair, pin in 55, close. Wt to left, using 19th pair, pin in 56, close. Wt to right, using 23d pair, pin in 57, close. Wt to left, using 20th pair, pin in 58, close. Wt to right, using 23d pair, pin in 59, close. Wt to left, using 21st pair, pin in 60, close. Wt 22d and 23d, pin in 61, close. Wt 21st and 22d, pin in 62, close. Wt 22d and 23d, pin in 63, close.

Wt to left, using 20th pair, pin in 64, close. Wt to right, using 23d pair, pin in 65, close. Wt to left, using 19th pair, pin in 66, close. Wt to right, using 23d pair, pin in 67, close. Wt to left, using 18th pair, pin in 68, close. Wt to right, using 23d pair, pin in 69, close. Wt to left, using 17th pair, pin in 70, close. Wt to right, using 23d pair, pin in 71, close. Wt to left, using 16th pair, pin in 72, close.

To resume net-ground, ht 15th and 16th, pin in 75, close. Ht to left, using 12th pair, pin in 76, close. Ht to right, using 17th pair, pin in 77, close. Ht to left, using 13th pair, pin in 78, close. Ht to right using 18th pair, pin in 79, close. Ht to left, using 14th pair, pin in 80, close. Ht to right, using 19th pair, pin in 81, close. Ht to left, using 15th pair, pin in 82, close. Ht to right, using 20th pair, pin in 83, close; ht to left, using 16th pair, pin in 84, close; ht to right, using 21st pair, pin in 85, close; ht to left, using 17th pair, pin in 86, close; ht to right, using 22d pair, pin in 87, close; ht to left, using 19th pair and lay these threads aside, without pinning. Tw once the pairs 8th to 13th, and with them, make a "spider," pinning in 88. Tw twice the pairs used.

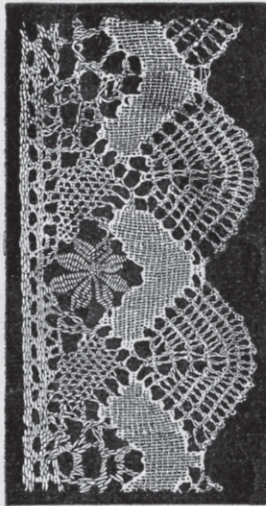
Wt 7th and 8th, pin in 91, close. Wt 8th and 9th, pin in 92, close. Wt 9th and 10th, pin in 93, close. Wt 13th and 14th, pin in 94, close. Wt 12th and 13th, pin in 95, close. Wt 11th and 12th, pin in 96, close. Wt 10th and 11th, pin in 97, close. Tw once the pairs, 4th to 9th, and with them make a "spider," pinning in 102. Tw twice the pairs used. Wt 3d and 4th, pin in 103. Wt 4th and 5th, pin in 104, close. Wt 5th and 6th, pin in 105, close. Make edge, pinning in 106. Ht 3d and 4th, 4th and 5th, pin in 107, and to close; ht 3d and 4th, 4th and 5th. Make edge, pinning in 108. Wt 9th and 10th, pin in 113, close. Wt 8th and 9th, pin in 114, close. Wt 7th and 8th, pin in 115, close. Wt 6th and 7th, pin in 116, close. Tw once the pairs, 12th to 17th, and make a "spider," pinning in 109. Tw twice the pairs used.

Wt 11th and 12th, pin in 110, close. Wt 12th and 13th, pin in 111, close. Wt 13th and 14th, pin in 112, close. Tw once the pairs 8th to 13th, and make a "spider," pinning in 117. Tw twice the pairs used. Wt 7th and 8th, pin in 118, close. Wt 8th and 9th, pin in 119, close. Wt 9th and 10th, pin in 120, close. Wt 5th and 6th, pin in 121, close. Wt 4th and 5th, pin in 122, close. Wt 3d and 4th, pin in 123, close. Make edge, pinning in 124. Tw once the pairs, 4th to 9th, and with them make a "spider," pinning in 125. Tw twice the pairs used. Wt 3d and 4th, pin in 126, close. Wt 4th and 5th, pin in 127, close. Wt 5th and 6th, pin in 128, close. Make edge, pinning in 133. Ht 3d and 4th, 4th and 5th, pin in 134, and to close ht 3d and 4th, 4th and 5th. Make edge, pinning in

135. Continue net-ground from the beginning, 13, as instructed above, and work to 74. Then make another scallop, as before, and resume net-ground, working again to 13. Then proceed thus:—

Wt 9th and 10th, pin in 129, close. Wt 8th and 9th, pin in 130, close. Wt 7th and 8th, pin in 131, close. Wt 6th and 7th, pin in 132, close. Tw once the pairs, 8th to 13th, and with them make a "spider," pinning in 136. Wt 13th and 14th, pin in 137, close. Wt 12th and 13th, pin in 138, close. Wt 11th and 12th, pin in 139, close. Wt 7th and 8th, pin in 140, close. Wt 8th and 9th, pin in 141, close. Wt 9th and 10th, pin in 142, close. Tw the pairs 4th to 9th, and with them make a "spider," pinning in 146. Tw pairs used. Tw once the pairs, 12th to 17th, and make a spider, pinning in 147. Twist twice the pairs used.

LESSON No. 18.



Lesson No. 18—Medici Lace.

Medici Lace. This illustration is reduced to one-half the actual size of pattern. It requires 48 bobbins, or 24 pairs, and Barbour's Irish Flax thread, No. 70. Pin 2 pairs of threads, each, at 90 and 92, 1 pair, each, at 104, 106, 108, 5 pairs at 100, and 2 pairs, each, at 105, 131, 65, 66, 67, and 62.

Ctc 3d and 4th, pin in 1, close, etc 2d and 3d, 1st and 2d, pin in 2, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th, ht 7th and 8th, pin in 3, close, ht 9th and 10th, pin in 4, close, ht 8th and 9th, pin in 5, close, wt 7th and 8th, 9th and 10th. Ht 6th and 7th, pin in 6, close, etc 5th and 6th. 4th and 5th, 3d and 4th, pin in 7, close, etc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, pin in 8, close, ht 6th and 7th, pin in 9, close, wt 7th and 8th. Ctc 2d and 3d, 1st and 2d, pin in 10, close, etc 2d and 3d. Ctc 5th and 6th, 4th and 5th, 3d and 4th, pin in 11, close, etc 4th and 5th, 5th and 6th, tw 6th. Ht 11th and 12th, pin in 12, close, ht 13th and 14th, pin in 13, close, ht 12th and 13th, pin in 14, close, wt 11th and 12th, 13th and 14th, ht 10th and 11th, pin in 15 close, ht, 9th and 10th, pin in 16, close, ht 11th and 12th, pin in 17, close, ht 10th and 11th, pin in 18, close, wt 9th and 10th, 11th and 12th. Ht 8th and 9th, pin in 19, close, ht 7th and 8th, pin in 20, close, ht 9th and 10th, pin in 21, close, ht 8th and 9th, pin in 22, close, wt 7th and 8th, 9th and 10. Ht 6th and 7th, pin in 23, close, etc 2d and 3d, 1st and 2d, pin in 24, close, etc 2d and 3d. Ctc 5th and 6th, 4th and 5th, 3d and 4th, pin in 25, close, etc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, pin in 26, close, ht 6th and 7th, pin in 27, close, wt 7th and 8th. Ctc 2d and 3d, 1st and 2d, pin in 28, close, etc 2d and 3d. Ctc 5th and 6th, 4th and 5th, 3d and 4th, pin in 29, close, etc 2d and 3d, 1st and 2d, pin in 30, close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th.

LINEN GROUND.—Ctc 21st and 22d, pin in 31, close, etc to left, until the 15th pair is used, pin in 32, close, etc to right, until 21st is used, pin in 33, close, etc to left, until 14th is used, pin in 34, close, etc to right, until 20th is used, pin in 35, close, etc to left, until 13th is

used, pin in 36, close, etc to right, until 19th is used, pin in 37, close, etc to left, until 12th is used, pin in 38, close, etc to right until 18th is used, pin in 39, close, etc to left, until 11th is used, pin in 40, close, etc to right, until 17th is used, pin in 41, close, etc to left, until 12th is used, pin in 42, close, etc to right, until 16th is used, pin in 43, close, etc 14th and 15th, 13th and 14th, pin in 44, close, etc 14th and 15th, pin in 45, close. Tw once, 11th to 22d pairs.

NET GROUND.—Ht 10th and 11th, pin in 46, close, ht 11th and 12th, pin in 47, close, ht 10th and 11, 9th and 10th, pin in 48, close, ht to right, until 13th is used, pin in 49, close, ht to left, until 8th is used, pin in 50, close, ht to right until 14th is used, pin in 51, close, ht to left, until 7th is used, pin in 52, close, ht to right until 13th is used, pin in 53, close, ht to left until 7th is used, wt 6th and 7th, pin in 54, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 55, close, etc 2d and 3d, 1st and 2d, pin in 56, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th; ht 7th and 8th, 8th and 9th, 9th and 10th, 10th and 11th, 11th and 12th, pin in 57, close, ht to left until 7th is used, pin in 58, close, ht to right until 11th is used, pin in 59, close, ht to left until 7th is used, wt 6th and 7th, pin in 60, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 61, close, etc 2d and 3d, 1st and 2d, pin in 62, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, 8th and 9th, 9th and 10th, pin in 63, close, ht 8th and 9th, 7th and 8th, pin in 64, close, ht 8th and 9th, pin in 65, close, ht 7th and 8th, wt 6th and 7th, pin in 66, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 67, close, etc 2d and 3d, 1st and 2d, pin in 68, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th, ht 7th and 8th, pin in 69, close, wt 6th and 7th, pin in 70, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 71, close, etc 2d and 3d, 1st and 2d, pin in 72, close, etc 2d and 3d, etc 4th and 5th, 5th and 6th, tw 6th.

SCALLOP.—Wt 23d and 24th, pin in 73, close; wt to left, until 16th is used, pin in 74, close; wt to right, until 24th is used, pin in 75, close; wt to left, until 17th is used, pin in 76, close; wt to right until 24th is used, pin in 77, close; wt to left, until 18th is used, pin in 78, close; wt to right, until 24th is used, pin in 79, close; wt to left, until 19th is used, pin in 80, close; wt to right until 24th is used, pin in 81, close; wt to left, until 20th is used, pin in 82, close; wt to right, until 24th is used, pin in 83, close; wt 22d and 23d, 21st and 22d, pin in 84, close; wt 22d and 23d, 23d and 24th, pin in 85, close; wt to left, until 15th is used, pin in 86, close; wt to right, until 24th is used, pin in 87, close; wt 22d and 23d, 21st and 22d, pin in 88, close; wt 22d and 23d, 23d and 24th, pin in 89, close; wt to left until 20th is used, pin in 90, close; wt to right, until 24th is used, pin in 91, close; wt to left, until 19th is used, pin in 92, close; wt to right, until 24th is used, pin in 93, close; wt to left, until 18th is used, pin in 94, close; wt to right, until 24th is used, pin in 95, close; wt to left, until 17th is used, pin in 96, close; wt to right, until 24th is used, pin in 97, close; wt to left, until 16th is used, pin in 98, close, wt to right, until 24th is used, pin in 99, close.

LINEN GROUND.—Ctc 14th and 15th, pin in 99, close, etc 15th and 16th, pin in 100, close, etc 14th and 15th, 13th and 14th, pin in 101, close, etc to right until 17th is used, pin in 102, close, etc to left until 12th is used, pin in 103, close, etc to right until 18th is used, pin in 104, close, etc to left until 11th is used, pin in 105, close, etc to right until 19th is used, pin in 106, close, etc to left until 12th is used, pin in 107, close, etc to right until 20th is used, pin in 108, close, etc to left until 13th is used, pin in 109, close, etc to right until 21st is used, pin in 110, close, etc to left until 14th is used, pin in 111, close, etc to right until 22d is used, pin in 31, close. Tw 11th, 12th, 13th and 14th pairs.

THE ROSETTE is made as follows:—For each of the upper four leaves, allow two pairs of threads. Weave one of the four threads, back and forth across the three others, in the manner as directed for the “jewel.” Do this ten times to make the leaf of the right length. Use 7th and 8th pairs for the first leaf, 9th and 10th for the second leaf, 11th and 12th for the third leaf, and 13th and 14th, for the fourth leaf. When the four leaves are made, join them in the center of the rosette, by using each pair of bobbins, as if it were a single bobbin, crossing them as if making a “spider,” and pinning the center 112. Then make the lower four leaves in the same way.

Ht 6th and 7th, pin in 113, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 114, close, etc 2d and 3d, 1st and 2d, pin in 115, close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, pin in 116, close, ht 6th and 7th, pin in 117, close, wt 7th and 8th. Ctc 5th and 6th, 4th and 5th, 3d and 4th, pin in 118, close, etc 2d and 3d, 1st and 2d, pin in 119, close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th. Ht 8th and 9th, pin in 120, close, ht 7th and 8th, pin in 121, close, ht 9th and 10th, pin in 122, close, ht 8th and 9th, pin in 123, close, wt 7th and 8th, 9th and 10th, ht 6th and 7th, pin in 124, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 125, close, etc 2d and 3d, 1st and 2d, pin in 126, close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, pin in 127, close, ht 6th and 7th, pin in 128, close, wt 7th and 8th. Ctc 5th and 6th, 4th and 5th, 3d and 4th, pin in 129, close, etc 2d and 3d, 1st and 2d, pin in 130, close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th.

Resume the linen ground. Ctc 21st and 22d, pin in 31, close; etc to left, until the 15th pair is used, pin in 32, close; etc to right, until 21st is used, pin in 33, close; etc to left, until 13th is used, pin in 34, close; etc to right, until 20th is used, pin in 35, close; etc to left, until 12th is used, pin in 36, close; etc to right, until 19th is used, pin in 37, close; etc to left, until 12th is used, pin in 38, close; etc to right, until 18th is used, pin in 39, close; etc to left, until 11th is used, pin in 40, close; etc to right, until 17th is used, pin in 41, close; etc to left, until 12th is used, pin in 42, close; etc to right, until 16th is used, pin in 43, close; etc 14th and 15th, 13th and 14th, pin in 44, close; etc 14th and 15th, pin in 45, close. Tw once, 11th to 22d pairs.

Resume net ground. Ht 10th and 11th, pin in 46, close, ht 11th and 12th, pin in 47, close, ht 10th and 11th, 9th and 10th, pin in 48, close, ht to right, until 13th is used, pin in 49, close, ht to left, until 8th is used, pin in 50, close, ht to right until 14th is used, pin in 51, close, ht to left, until 7th is used, pin in 52, close, ht to right until 13th is used, pin in 53, close, ht to left until 7th is used, wt 6th and 7th, pin in 54, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 55, close, etc 2d and 3d, 1st and 2d, pin in 56, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th; ht 7th and 8th, 8th and 9th, 9th and 10th, 10th, and 11th, 11th and 12th, pin in 57, close, ht to left until 7th is used, pin in 58, close, ht to right until 11th is used, pin in 59, close, ht to left until 7th is used, wt 6th and 7th, pin in 60, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 61, close, etc 2d and 3d, 1st and 2d, pin in 62, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th. Ht 7th and 8th, 8th and 9th, 9th and 10th, pin in 63, close, ht 8th and 9th, 7th and 8th, pin in 64, close, ht 8th and 9th, pin in 65, close, ht 7th and 8th, wt 6th and 7th, pin in 66, close, etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 67, close, etc 2d and 3d, 1st and 2d, pin in 68, close, etc 2d and 3d. Ctc 4th and 5th, 5th and 6th, tw 6th, ht 7th and 8th, pin in 69, close, wt 6th and 7th, pin in 70, close.

etc 5th and 6th, 4th and 5th, 3d and 4th, pin in 71, close, etc 2d and 3d, 1st and 2d, pin in 72 close, etc 2d and 3d; etc 4th and 5th, 5th and 6th, tw 6th.

Make scallop as instructed, numbers 73 to 98.

Work linen ground as instructed, numbers 99 to 111.

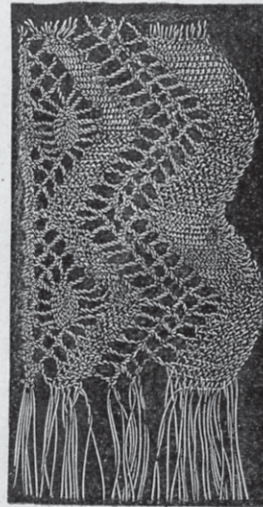
Wt 9th, and 10th, 11th and 12th, ht 10th and 11th, pin in 131, close, ht 9th and 10th, pin in 132, close, ht 11th and 12th, pin in 133, close, ht 10th and 11th, pin in 134, close, wt 9th and 10th, 11th and 12th. Ht 12th and 13th, pin in 135, close, ht 8th and 9th, pin in 136, close. Repeat instructions.

LESSON No. 19.

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Zigzag Lace. The illustration is reduced to one-half actual size of pattern. This requires 52

bobbins, or 26 pairs, and Barbour's Irish flax thread, No. 80, Pin 5 pairs of threads, each, in 112 and 82, 4 pairs each in 113, 83 and 76, 2 pairs each, in 99 and 91. Beginning with net-ground scallop, tw 13th and 14th pairs, ht 13th and 14th, pin in 1, close. Work to right, ht with 25th and 26th, pin in 2, close. Ht to left, drop 13th pair, ht 14th and 15th, pin in 3, close. Continue to work in this way, dropping 1 pair on left each time, until you pin in 16, on edge. Work to left, ht with 21st and 22d, and put aside. For the open-hole "zigzag," tw 12th and 13th, ht, pin in 17, close. Tw 13th and 14th, ht, pin in 18, close. In this way work down to point of scallop using 19th and 20th, pin in 24, close. Tw 11th and 12th, ht, pin in 25, close. Use 12th and 13th the same way, and so on, working down to 18th and 19th, pin in 32, close. Working the net-ground zigzag, tw 8th and 9th, ht, pin in 33, close. Work to left, ht with 4th and 5th, pin in 34, close; ht to right, take in 10th, which tw. Then to left, dropping off 4th. Work in this way to the point, using 15th and 16th, pin in 47; to left, ht with 11th and 12th; put aside. On the edge, use 3 pairs, as follows: (a), tw 2d and 3d, etc, tw 1st and 2d, etc, pin in 48, close. Tw



Lesson No. 19—Zigzag Lace.

2d and 3d, etc (a). Tw 3d and 4th, ht, pin in 49, close. Repeat from (a) to (a), putting pin in 50. Tw 4th and 5th, ht, pin in 51, close. Tw 3d and 4th, ht, pin in 52, close.

Repeat edge, pin in 53. Tw 5th and 6th, ht, pin in 54, close. Tw 4th and 5th, ht, pin in 55, close. Tw 3d and 4th, ht, pin in 56, close. Repeat edge, pin in 57. Tw twice the pairs, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th, and with them make a spider in the usual way, pinning centre in 58. Finish by twisting 3 times the pairs used. Ht 10th and 11th, pin in 59, close. Work to right, ht with 14th and 15th, pin in 60, close. Ht to left taking in 9th, pin in 61, close. Then to right, dropping 15th, continue to work back and forth, to ht, 11th and 12th, pin in 66, close; ht to left, to ht 7th and 8th, and put aside.

On edge, etc 2d and 3d, tw 1st and 2d, etc, pin in 67, close. Tw 3d and 4th, etc, pin in 68, close. Repeat edge, putting pin in 69. Tw 4th and 5th, ht, pin in 70, close. Tw 3d and 4th, ht, pin in 71, close. Repeat edge pinning in 72. Tw 5th and 6th, ht, pin in 73,

close. Tw 4th and 5th, ht, pin in 74, close. Tw 3d and 4th, ht, pin in 75, close. Repeat edge, pin in 76. Tw 6th and 7th, ht, pin in 77, close. To right, ht with 10th and 11th, pin in 78, close. To left as before, taking in 5th, pin in 79. Then to right dropping 11th, pin in 80, close. Work back and forth, putting pin in 83, between 3d and 4th; then to right, ht with 7th and 8th, put aside. This finishes the net zigzag.

To complete open-hole zigzag, tw 16th and 17th, ht, pin in 84. Same with 15th and 16th, pin in 85, close. Continue to 9th and 10th, with pin in 91. On other side, tw 17th and 18th, ht, pin in 92, close. Work in same way to 10th and 11th, pin in 99. For remainder of net-ground scallop, tw 20th and 21st, ht, pin in 100, close. To right, ht with 25th and 26th, pin in 101, close. To left taking in 19th, work as before, then work to right, and continue back and forth to 14th and 15th, pin in 112, close. To right pin in 113, and back to 13th and 14th, ht, pin in 1 again. This completes the design, which is a very useful one for many purposes.

LESSON No. 20.

Tondern Edging. This pattern requires 28 bobbins or 14 pairs, and Barbour's

Irish flax thread, Nos. 100 to 120. Pin 3 pairs of threads each, in 43, and 33, 2 pairs in 34, and one pair, each, in 23, 25, 39, 40, 41, 42. Twist once the pairs, 5th to 9th, inclusive, and with them make a "spider," having 3 "legs" on left side, and 2 "legs" on the right side. Pin in 1. Ht 4th and 5th, pin in 2, close. Ht 3d and 4th, pin in 3, close. Wt 2d and 3d, pin in 4; wt 1st and 2d, 2d and 3d. Ht 5th and 6th, pin in 5, close. Ht 4th and 5th, pin in 6, close. Ht 3d and 4th, pin in 7; close. Wt 2nd and 3d, pin in 8, wt 1st and 2d, 2d and 3d. Ht 6th and 7th, pin in 9, close. Ht 5th and 6th, pin in 10, close. Ht 4th and 5th, pin in 11, close. Ht 3d and 4th, pin in 12, close. Wt 2d and 3d, pin in 13, wt 1st and 2d, 2d and 3d. Ht 9th and 10th, pin in 14, close. Ht 8th and 9th, pin in 15, close. Ht 9th and 10th, 10th and 11th, 11th and 12th, pin in 16, close. Ht to left using 7th pair, pin in 17, close. Ht to right using 13th pair, pin in 18, close. Ht to left using 6th pair, pin in 19, close. Ht to right using 14th pair, pin in 20, close.

From this point, decrease or narrow the figure by leaving off a pair on either side, until the square is ended at, ht 9th and 10th, pin in 25, close. Scallop:—Cte 10th and 11th, 11th and 12th, tw 12th and 13th, wt, tw 13th and 14th, wt, pin in 26, close. Tw 12th and 13th, wt, tw 12th, etc 11th and 12th, 10th and 11th, pin in 27, close. Cte 11th and 12th, tw 12th and 13th, wt, tw 13th and 14th, wt, pin in 28, close. Tw 12th and 13th, wt, tw 12th, etc 11th and 12th, 10th and 11th, pin in 29, close. Cte 11th and 12th, tw 12th and 13th, wt, tw 13th and 14th, wt, pin in 30, close. Tw 12th and 13th, wt, tw 12th, etc 11th and 12th, 10th and 11th, pin in 31, close. Cte 11th and 12, tw 12th and 13th, wt, tw 13th and 14th, wt, pin in 32, close. Tw 12th and 13th, wt, tw 12th, etc 11th and 12th, 10th and 11th, pin in 33, close. Cte 11th and 12th, tw 12th and 13th, wt, tw 13th and 14th, wt, pin in 34, close. Tw 12th and 13th, wt, tw 12th, etc 11th and 12th, 10th and 11th, and lay aside the five pairs of scallop-threads without pinning.

Ht 5th and 6th, pin in 35, close. Ht 4th and 5th, pin in 36, close. Ht 3d and 4th, pin in 37, close. Wt 2d and 3d, pin in 38, wt 1st and 2d, 2d and 3d. Ht 6th and 7th, pin in 39, close. Ht 5th and 6th, pin in 40, close. Ht 4th and 5th, pin in 41, close. Ht 3d and