THE DIRECTORY OF HAND STITCHES USED IN TEXTILE CONSERVATION

Second Edition



The Textile Speciality Group 1995

Second Printing 2002

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THE DIRECTORY OF HAND STITCHES USED IN TEXTILE CONSERVATION

A project originated by the Study Group on Threads and Stitching Techniques, The Textile Conservation Group, New York.

Compiled by Martha Winslow Grimm

Illustrated by Rachel Paar

Second Edition



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INSTRUCTIONS FOR BOOK USE

There are three sections to this publication and their use will depend upon the needs of the reader. The first section is titled "Textile Conservation Processes and Appropriate Hand Stitches". It lists basic treatment processes a textile conservator performs and the hand stitches used. A conservator desiring to research methods of handling a stitching task associated with a treatment may read this section for solutions selected by others in the profession. Page numbers indicate where the stitch information is located.

The second section is titled: "Hand Stitches Used in Textile Conservation" is a compilation of hand stitches in use today by the textile conservation community. Each page features one stitch with directions and diagrams on how to complete the stitch, other names for the stitch, related stitches and how the stitch is being used. These pages are also useful as a tool for standardization of stitch terminology and can be used when writing treatment reports.

Finally, a "List of References" featuring writings about hand stitches and textile conservation is offered as an aid for those who wish to learn more about the subject.

ACKNOWLEDGEMENTS

The Stitch Directory Committee, part of the TCG Study Group on Threads and Stitching Techniques, researched, wrote, reviewed and edited the information contained in this book. The members are: Elizabeth Brown, Julia M. Burke, Margaret (Meg) Geiss-Mooney, Martha Winslow Grimm, Molly Hope, Ada H. (Dusty) Logan and Audrey M. Spence.

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DISCLAIMER

The techniques for executing hand stitches used in textile conservation may differ from stitches in other disciplines of needlework. The condition, type and decoration of the artifact and its proposed treatment dictate how the stitches are completed.

The inclusion of stitches in this directory is not a professional endorsement nor recommendation of their application.

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INTRODUCTION

In 1989 The Textile Conservation Group, Inc., a special interest membership group based in New York City, embarked on the long term project of compiling an inventory of functional hand stitches currently used in textile conservation. A survey was conducted among the U.S. membership. The Directory of Hand Stitches Used in Textile Conservation is a result of this survey, contributions of members and a review of literature.

The purpose of this stitch directory is to provide a record of hand stitches in use by conservators today as well as their possible applications and a standardization of the terminology. The directory is meant to be a reference for conservators and educators working in the field of textile conservation. The goals are to aid in hand stitch selection, to facilitate communication among colleagues and to clarify written documentation. This is not a guide or "how-to" study of stitches and their uses. The application and adaptability of each stitch is the responsibility of the individual conservator, and is part of the much greater process of decision making in the treatment and care of textiles.

The "Processes" section included in the beginning of the directory classifies the thirty nine hand stitches by their application or association in textile conservation. Stitches are listed in alphabetical order, with the most common American term used as the primary name. To facilitate cross-referencing, as many alternative names as possible have been included. In addition to the directions for completing the stitch, there are comments about structural function and application. Diagrams, essential to the comprehension and reproduction of these stitches, are included.

It is the hope of the Textile Conservation Group, Inc. that the result of this study will enhance communication among colleagues and improve the clarity of written reports. As a preliminary inventory, there is much more that needs to be done and this body of work does not represent the experiences of the textile conservation field at large. We hope The Directory of Hand Stitches Used in Textile Conservation will draw attention to the importance of stitching in textile conservation and encourage others to continue this work.

Julia B. Swetzoff

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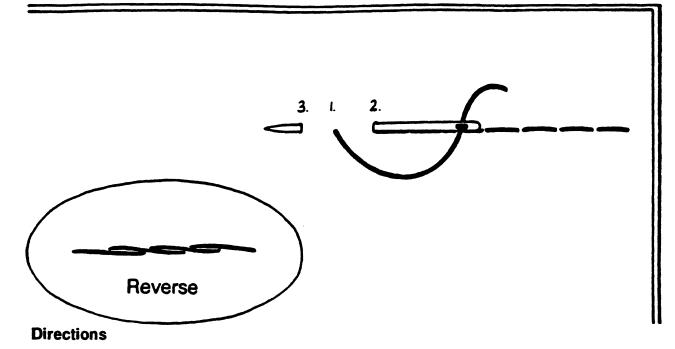
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Work from right to left. Bring needle out to the front side at 1. Move slightly to the right and insert needle through fabric to the reverse side at 2. To continue, bring needle out to the front side one stitch length to the left at 3. Move back to 1 and insert needle through fabric to the reverse side. Repeat.

Comments

This technique forms stitches which touch each other. A series of back stitches resembles straight machine stitching on the front side. Stitches on the reverse side overlap and are twice the length of those on the front.

Possible uses for this stitch

Creating Seams
Joining Fabric
Mounting
Reinforcing Holes and Tears
Stabilizing Seams

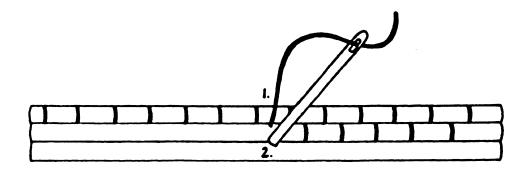
See also

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BASIC COUCHING STITCH

Other name

Simple Couching Stitch



Directions

Place loose yarn of the artifact into its proper position. Bring needle with a new thread out to the front at one side of the loose yarn at 1. Lay new thread across (perpendicular to) the loose yarn. On opposite side of the loose yarn at 2, insert needle through fabric to the reverse side. Repeat. Vary placement of the perpendicular stitches when more than one yarn is being couched.

Comments

This stitch is used to secure a warp, weft or supplementary yarn that has become detached from its original ground.

Possible uses for this stitch

Reinforcing Holes and Tears Reinforcing Weak Areas Securing a Damaged Area to a Support Fabric Securing Loose Threads to a Ground Fabric

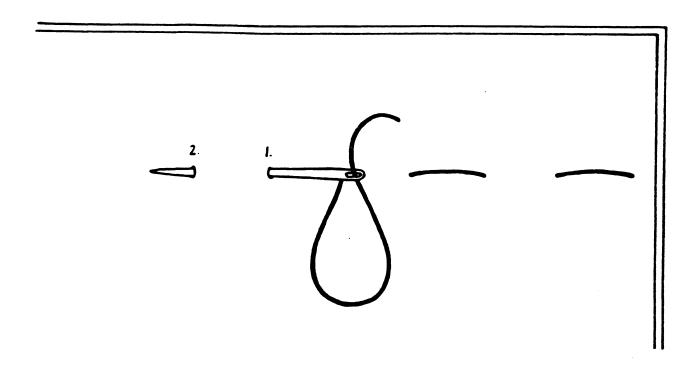
See also

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BASTING STITCH

Other names

Regular Basting Stitch
Tacking Stitch



Directions

Work from right to left. Insert needle through fabric to the reverse side at 1 and bring out to the front side at 2, at least 1/2 inch to the left. Repeat.

Comments

This temporary stitch is used to hold two or more layers of fabric together. It is worked the same as the Running Stitch except the stitches are longer.

Possible uses for this stitch

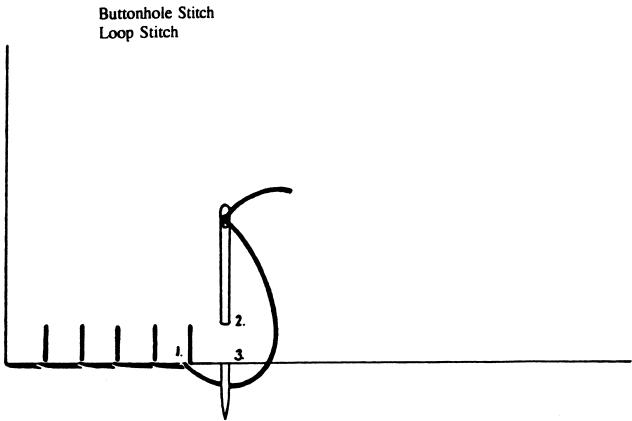
Securing a Damaged Area to a Support Fabric Temporary Stitch

See also

Diagonal Basting Stitch page 15 Running Stitch page 32

BLANKET STITCH

Other names



Directions

Work from left to right. Bring needle out to the front side near the textile edge at 1. Move slightly to the right and insert needle through fabric to the reverse side at 2. Bring needle down to the edge at 3. Before pulling needle through, carry thread from the previous stitch under point of needle. Repeat.

Comments

This stitch is commonly used on edges.

Possible uses for this stitch

Closing Slits
Finishing and Stabilizing Warp Ends
Reinforcing Selvedges

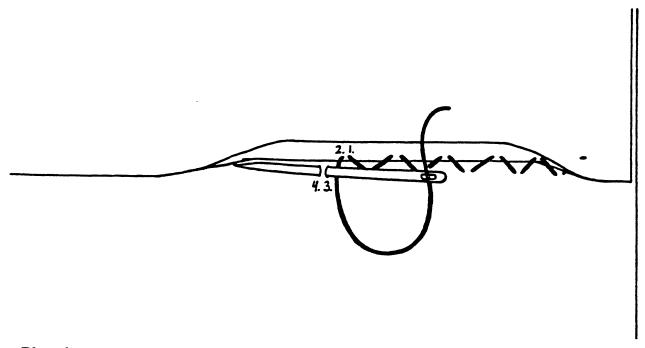
See also

Reverse Blanket Stitch

BLIND STITCH

Other names

Invisible Stitch
Tunnel Stitch



Directions

Work from right to left. This stitch is executed between two layers of fabric. Roll back the edge of one layer of fabric. Insert needle into this fabric at 1, catch a few threads and bring out at 2. Move needle slightly to the left and insert in the second layer of fabric at 3. Catch a few threads and bring needle out at 4. Continue to alternate the stitches between layers of fabric. Do not pull thread taut.

Comments

These stitches give the appearance of the Running Stitch on the reverse sides of the fabric layers.

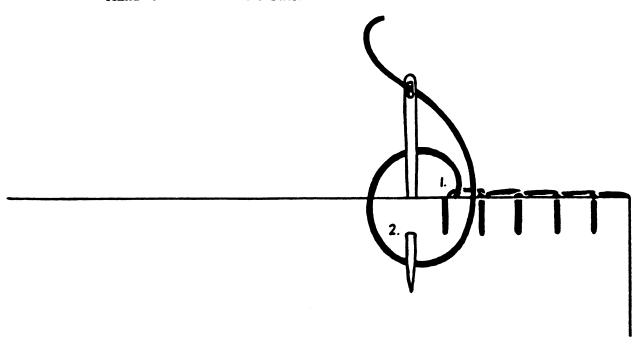
Possible uses for this stitch

Attaching Lining, Dust Covers and Backings Hemming Joining Fabric

BUTTONHOLE STITCH

Other name

Handworked Buttonhole Stitch



Directions

Work from right to left. Bring needle out to the front side near the textile edge at 1. Loop thread to left, then down to right. Insert needle from the reverse side at 2, keeping looped thread under both point and eye of needle. Pull needle through and place the purl (knot) on the top edge. Repeat.

Comments

This stitch is sewn on a textile edge. It can be used as a covering for the slit of a buttonhole when stitches are spaced very closely together.

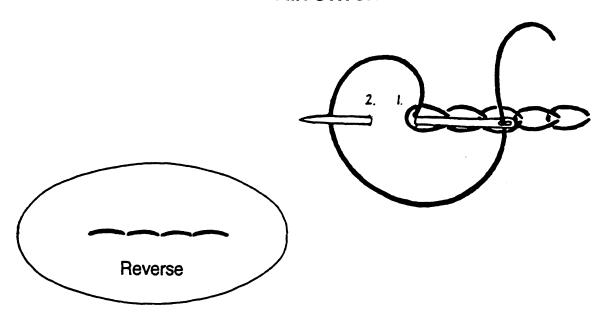
Possible uses for this stitch

Closing Slits
Finishing and Stabilizing Edges
Finishing and Stabilizing Warp Ends
Reinforcing Selvedges

See also

Blanket Stitch

CHAIN STITCH



Directions

Work from right to left. Bring needle out to the front side at 1. Loop thread up to the left and around. Insert needle in at 1 and out of fabric, over looped thread at 2. Pull needle through to form looped stitch. 2 becomes 1 for next stitch. Keep the thread loose.

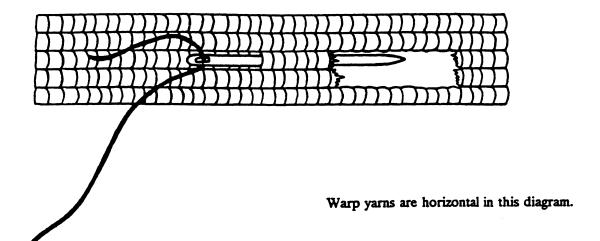
Comments

This stitch forms a series of interlinked loops of thread on the front side.

Possible use for this stitch

Finishing and Stabilizing Warp Ends

CHANNELING



Directions

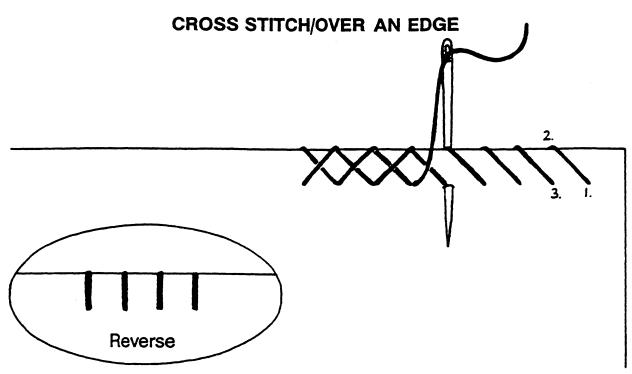
At approximately one-half inch to one inch before the weak area of the textile, insert a threaded needle in the space between the warp and the wefts that encase the warp, leaving a thread tail. Draw the needle through this space to the area of repair. If this technique is used for rewarping, carry the thread to the other side of the damaged area and channel through the other part of the same warp.

Comments

The channel is the space between a warp and the wefts. Channeling is a technique for securing the ends of repair thread in tightly woven textiles. It is also used to anchor a thread or yarn used as a replacement warp or to add an additional warp in a textile.

Possible uses for this stitch

Rewarping Securing Thread



Directions

Work from right to left. Bring needle out to the front side at 1. Move thread to the left and to the textile edge at 2. Wrap thread over the edge and insert needle from the reverse side to the front side at 3. Work across the entire area. To make crosses, repeat the stitch in the opposite direction.

Comments about stitch

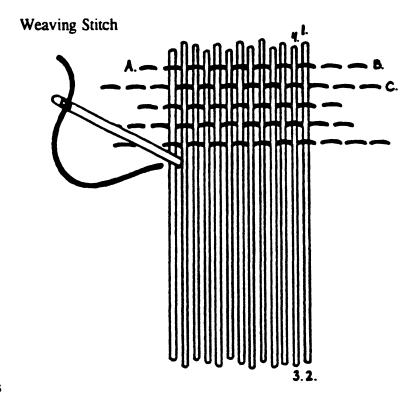
Even tension control of the thread is needed when worked over an edge.

Possible uses for this stitch

Finishing and Stabilizing Edges Finishing and Stabilizing Warp Ends

DARNING STITCH

Other name



Directions

Begin and end rows of stitching in a stable area of the textile. Warp: Work from right to left. Bring needle out to the front side at 1. Insert needle through fabric to the reverse side at 2 (directly below). Bring needle out to the front side at 3. Insert needle through fabric to the reverse side at 4 (directly above) and repeat for as many yarns as needed. Keep warp yarns loose to accomodate the new wefts. Weft: Work from left to right, starting at the upper left corner. Bring needle out to the front side at A and weave across the warps, going over and under alternate lengthwise yarns. Insert needle through fabric to the reverse side at B. Bring needle out to the front side at C and make the next crosswise run, putting the thread over and under opposite yarns than in the previous row. Continue until the area is covered. Vary the point where rows begin and end.

Comments

This is used to fill in missing yarns. The fabric surrounding the hole must be strong to support the reweaving or it will cause more damage.

Possible use for this stitch

Reinforcing Holes and Tears

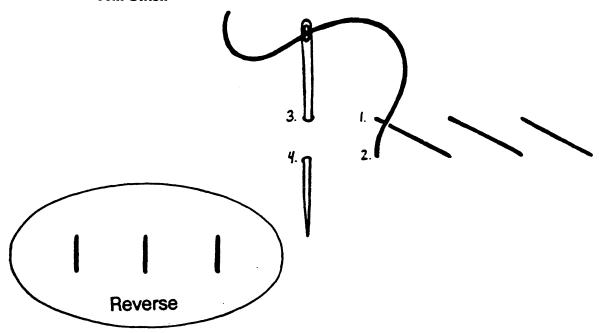
See also

Invisible Darning Stitch

DIAGONAL BASTING STITCH

Other names

Crosswise Basting Stitch Half Cross Stitch Tailor Basting Stitch Tent Stitch



Directions

Work from right to left. Insert needle through fabric to the reverse side at 1 and bring out to the front side at 2, so the stitch formed on the reverse side is parallel to either the warp or the weft of the fabric. Insert needle through fabric to the reverse side at 3, to the left of and even with point where needle was first inserted, forming a stitch on the top side diagonal to the warp and the weft. Bring needle out to the front side at 4 to begin next stitch. Repeat.

Comments

This large stitch is used to control layers of fabric within the area being conserved.

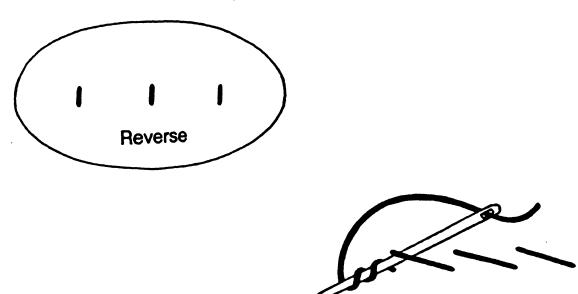
Possible uses for this stitch

Securing a Damaged Area to a Support Fabric Temporary Stitch

See also

Basting Stitch	page 7
Overcast Stitch	page 27
Oversewing Stitch	page 29
Tacking Stitch	page 39

DIAGONAL STITCH/KNOT OVER PREVIOUS STITCH



Directions

Work from right to left on reverse side of the textile. Modify a Diagonal Stitch by having the thread on the front side of the textile go over the warp yarns. Keeping the needle perpendicular to the fabric, stab straight through the Velcro, lining and textile but avoid piercing the textile yarns. When needled, insert the needle through previous stitch, form a knot on the needle and pull towards you to tighten. Move the needle to the left and insert to begin the next Diagonal Stitch. Knot: Holding thread taut with the left hand, wrap thread around the needle once or twice. Keeping fingers over the wrapped thread, pull the needle through.

Comments

The knot is used <u>occasionally</u> with a series of Diagonal Stitches. It is used when the warps run in the same direction as the row of Diagonal Stitches. Although knots are rarely used in textile conservation, they are often used when securing Velcro to heavy textiles. It is reasoned that if a stitch were to break, a large portion of the stitches could be pulled out by the weight of the textile. Knots are added to guard against this happening.

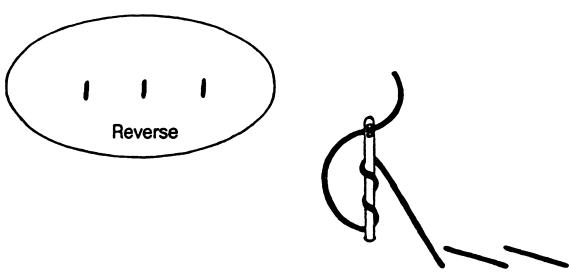
Possible use for this stitch

Securing Velcro Heading Band to Reverse, Top Edge of Heavy Textiles.

See also

Diagonal Basting Stitch	page 15
Diagonal Stitch/Modified French Knot	page 17

DIAGONAL STITCH/MODIFIED FRENCH KNOT



Directions

Work from right to left on reverse side of the textile. Modify a Diagonal Stitch by having the thread on the front side of the textile go over the warp yarns. Keeping the needle perpendicular to the fabric, stab straight through the Velcro, lining and textile but avoid piercing the textile yarns. When needed, secure thread with a Modified French Knot before re-entering the textile. Modified French Knot: Holding thread taut with the left hand, wrap thread around the needle once or twice. Keeping fingers over the wrapped thread, insert the needle into the textile and pull through. (Unlike a true French Knot, this stitch does not begin and end in the same location.)

Comments

The Modified French Knot is used occasionally with a series of Diagonal Stitches. It is used when warps run in the same direction as the row of Diagonal Stitches. Although knots are rarely used in textile conservation, they are often used when securing Velcro to heavy textiles. It is reasoned that if a stitch were to break, a large portion of the stitches could be pulled out by the weight of the textile. Knots are added to guard against this happening.

Possible use for this stitch

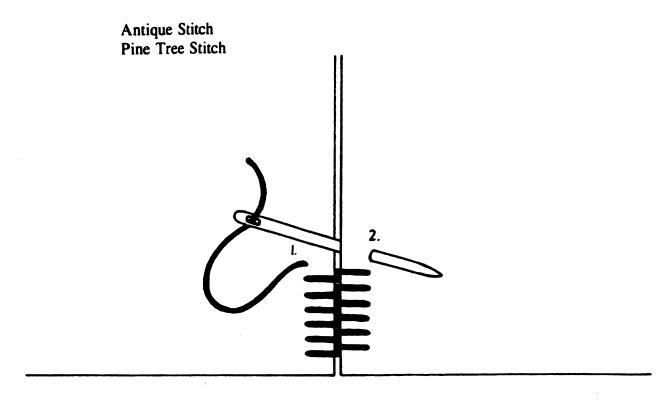
Securing Velcro Heading Band to Reverse, Top Edge of Heavy Textiles.

See also

Diagonal Basting Stitch page 15
Diagonal Stitch/Knot over Previous Stitch page 16

FIGURE 8 STITCH

Other names



Directions

Bring needle out to the front side at 1. Insert needle through the fabric slit and bring out to the front side from the reverse side at 2, which is on the opposite edge of the slit and slightly above 1. Thread must appear to lie perpendicular to the slit. Go in the opposite direction for the next stitch sequence. Repeat. The threads will cross each other in the repaired slit.

Comments

This stitch is very similar to the Lacing Stitch except Figure 8 Stitches are sewn more closely together resulting in straight stitches on the front.

Possible uses for this stitch

Closing Slits Joining Fabric

See also

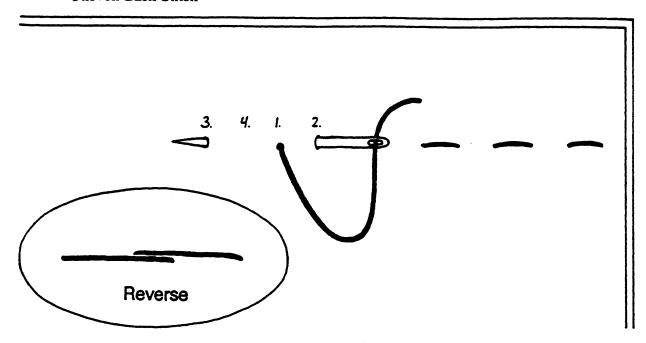
Lacing Stitch

HALF BACK STITCH

Other name

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Uneven Back Stitch



Directions

Work from right to left. Bring needle out to the front side at 1. Move needle desired stitch length to the right and insert through fabric to the reverse side at 2. Move needle twice the stitch length to the left and bring out to the front side at 3. Move needle one stitch length to the right at 4 and insert needle through fabric to the reverse side. Repeat.

Comments

This stitch is worked in a similar manner to the Back Stitch but with spaces left between stitches on the front side.

Possible uses for this stitch

Creating Seams
Mounting
Securing a Damaged Area to a Support Fabric
Stabilizing Seams

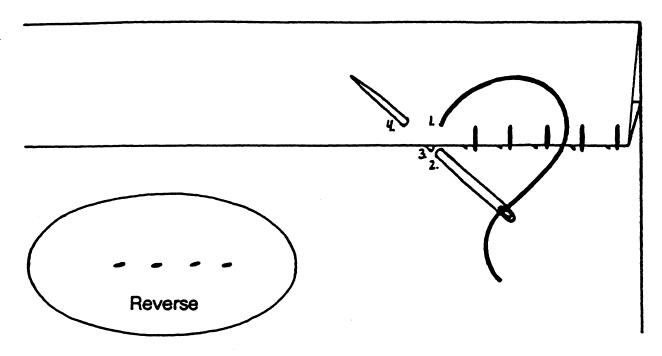
See also

Back Stitch page 5 Running/Back Stitch page 33

HEMMING STITCH

Other names

Hem stitch Vertical Hemming Stitch



Directions

Work from right to left. Bring needle out to the front side through the top fabric layer at 1. Move needle directly below and insert in the bottom layer of fabric at 2. Catch a few threads and bring needle out to the front side at 3. Move slightly to the left and into the top fabric. Bring needle from the reverse side to the front side at 4 to begin the next stitch. Repeat.

Possible uses for this stitch

Attaching Linings, Dust Covers and Backings Hemming Joining Fabric Mounting

See also

Slip Stitch

HERRINGBONE STITCH

Other names

Barred Witch Stitch
Cat Stitch
Catch Stitch
Crossed Backstitch

Reverse

Directions

Work from left to right. Bring needle out to the front side at 1. Take a slanting stitch to the top right, insert needle through fabric to the reverse side at 2. Move needle a short distance to the left and bring out to the front side at 3. Move needle down to the right and insert needle through fabric to the reverse side at 4 to complete stitch. Repeat.

Comments

This stitch is sometimes worked from the front side of the textile with the long segments on the reverse side.

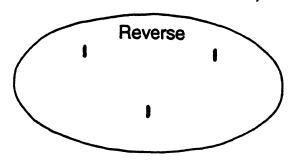
Possible uses for this stitch

Hemming
Mounting
Securing a Damaged Area to a Support Fabric

See also

Herringbone Stitch/Knot over Previous Stitch

HERRINGBONE STITCH/KNOT OVER PREVIOUS STITCH





Directions

Work from right to left on reverse side of the textile. Modify a Herringbone Stitch by opening the stitches so the threads do not cross one another. The short segment of the stitch should cross over the warp and run vertical instead of horizontal. Keeping the needle perpendicular to the fabric, stab straight through the Velcro, lining and textile but avoid piercing the textile yarns. When needed, insert the needle through the previous stitch. Form a knot on the needle, pull towards you to tighten and slip knot onto thread. Move needle to the left to begin the next Herringbone Stitch. Knot: Holding thread taut with the left hand, wrap thread around the needle once or twice. Keeping fingers over the wrapped thread, pull the needle through.

Comments

The knot is used occasionally with a series of Herringbone Stitches. It is used when warps run in the same direction as the row of Herringbone Stitches. Although knots are rarely used in textile conservation, they are often used when securing Velcro to heavy textiles. It is reasoned that if a stitch were to break, a large portion of the stitches could be pulled out by the weight of the textile. Knots are added to guard against this happening.

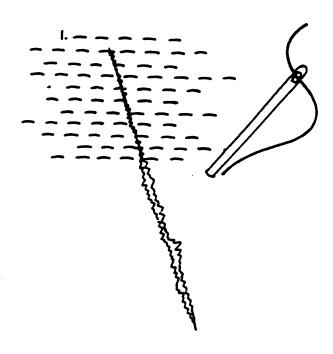
Possible use for this stitch

Securing Velcro Heading Band to Reverse, Top Edge of Heavy Textiles.

See also

Herringbone Stitch	page 21
Diagonal Stitch/Knot Over Previous Stitch	page 16

INVISIBLE DARNING STITCH



Directions

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Bring needle out to the front side at 1. Make rows of tiny Running Stitches, back and forth, keeping the stitches parallel with the grain of the fabric. Submerge the stitches in the thickness of the textile and keep the thread loose. Vary the point where rows begin and end.

Comments

This is a technique for securing loose threads around a tear and for closing a tear. A fine thread is desirable when executing this stitch.

Possible uses for this stitch

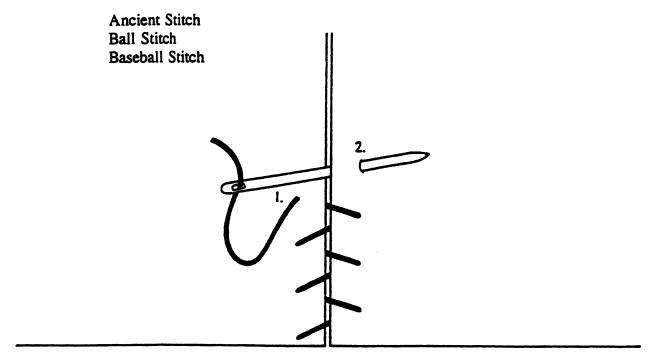
Closing Slits
Reinforcing Tears
Securing a Damaged Area to a Support Fabric

See also

Running Stitch

LACING STITCH

Other names



Directions

Bring needle out to the front side at 1. Insert needle through the fabric slit at a diagonal and bring out to the front side from the reverse side at 2, on the opposite side of the slit and above 1. Go in opposite direction for the next stitch sequence. Repeat. The threads will cross each other in the repaired slit.

Comments

This stitch is very similar to the Figure 8 Stitch except Lacing Stitches are spaced farther apart resulting in slanted stitches on the front.

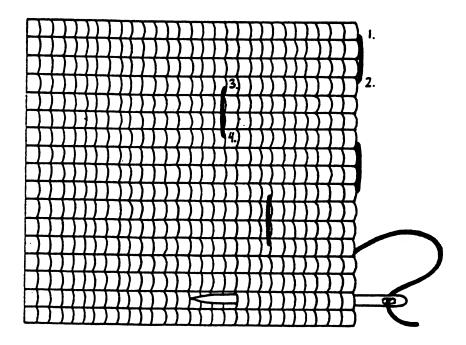
Possible uses for this stitch

Closing Slits
Joining Fabric

See also

Figure 8 Stitch

LADDER STITCH



Warp yarns are horizontal in this diagram.

Directions

Work from reverse side of the textile. At least two inches beyond the area of deterioration, insert needle through the reverse side of the knots (or through wefts) exiting at the edge of the textile at 1. Bypassing two warps, insert needle at 2, tunnel back through the knots (or through wefts) and bring needle out at 3. Bypass at least two warps, insert needle at 4 to begin next stitch. Stitches should not be noticeable from the front. The length of stitches should be staggered.

Comments

This stitch is used on an edge to secure the last rows of weft. Thinner thread than the yarns of the textile should be used to reduce the stress of additional thread through the textile's structure.

Possible use for this stitch

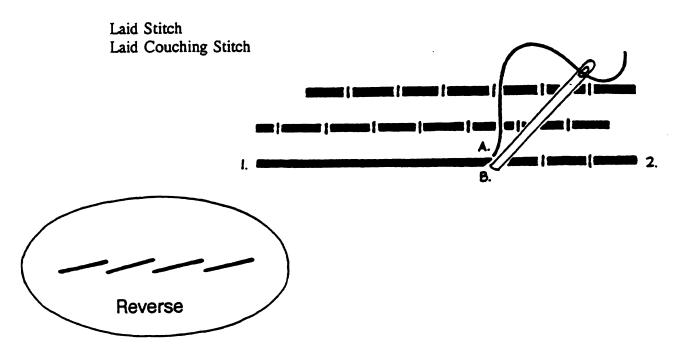
Stabilizing Weft

See also

Channeling

LAID AND COUCHED STITCH

Other names



Directions

Using one thread, bring needle out to the front side at 1. Lay a long stitch in the warp or the weft direction and insert needle through fabric to the reverse side at 2, making sure the thread follows the grain of the fabric. Using a second thread, bring needle out to the front at A at one side of the first thread. Lay the new thread across (perpendicular to) the first thread and insert the needle through fabric to the reverse side at B. Repeat perpendicular stitches to secure the first thread. If there is more than one row of stitches, vary the point where rows begin and end.

Comment

The two threads used can be of different weight and/or material.

Possible uses for this stitch

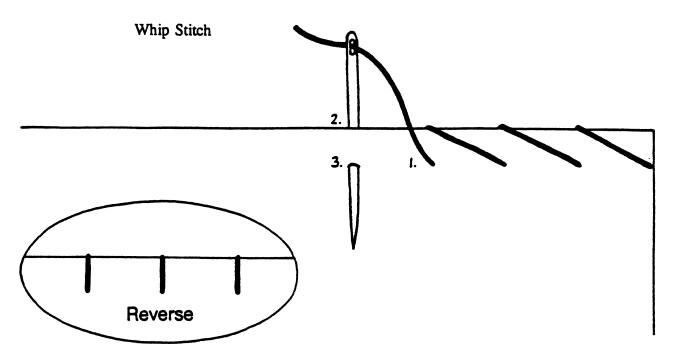
Closing Slits
Reinforcing Holes and Tears
Securing a Damaged Area to a Support Fabric
Securing Loose Threads to a Ground Fabric

See also

Basic Couching Stitch	page 6
Self Couching Stitch	page 34

OVERCAST STITCH

Other name



Directions

Work from right to left. Bring needle out to the front side at 1. Move thread to the left and to the textile edge at 2. Wrap thread over the edge, keep needle perpendicular and insert needle from the reverse side to the front side at 3. Repeat.

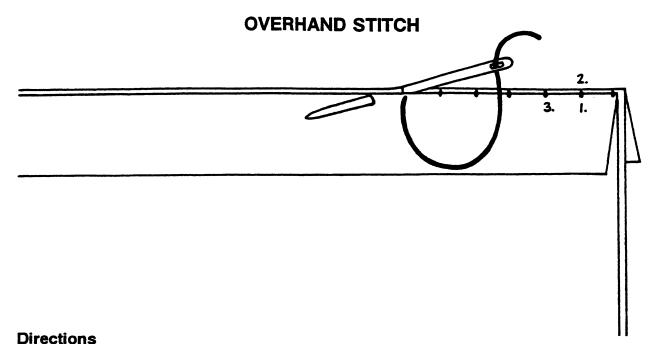
Comment

This is the same technique used for the Oversewing Stitch but this stitch covers an edge.

Possible uses for this stitch

Attaching Linings, Dust Covers and Backings Finishing and Stabilizing Edges Finishing and Stabilizing Warp Ends Mounting Reinforcing Selvedges

Diagonal Basting Stitch	page 15
Overhand Stitch	page 28
Oversewing Stitch	page 29
Tapestry Overcast Stitch	page 41



Work from right to left. While stitching, the two fabrics should be stacked on top of one another. Bring needle out to the front side on one fabric piece at 1. Move needle directly across to the second piece of fabric, insert needle at 2. To continue, bring needle out to the front side in the first fabric one stitch length to the left at 3. Repeat.

Comment

This stitch is used to hold two edges or two folds together.

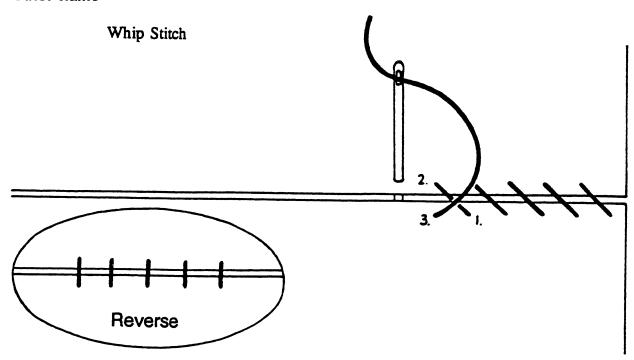
Possible uses for this stitch

Closing Slits
Joining Fabric

Overcast Stitch	page 27
Oversewing Stitch	page 29

OVERSEWING STITCH

Other name



Directions

Work right to left. Bring needle out to the front side at 1. Move to the left, at a slant and insert needle through the second piece of fabric to the reverse side at 2. To continue, bring needle out to the front side in the first fabric at 3, a stitch length to the left. Repeat.

Comments

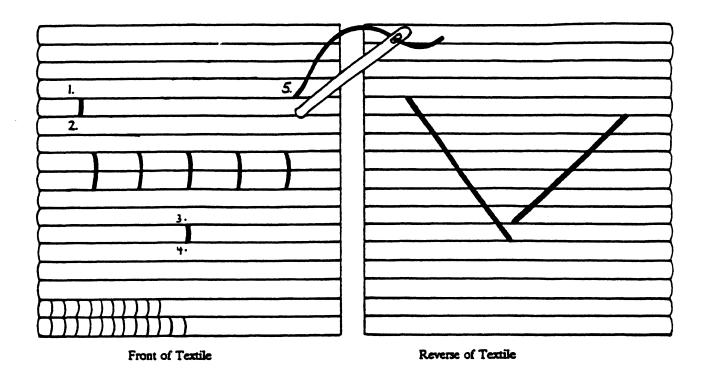
The same technique is used for this stitch and the Overcast Stitch but here, it is used to hold two edges together.

Possible uses for this stitch

Closing Slits Joining Fabric

Overcast Stitch	page 27
Overhand Stitch	page 28

REINFORCEMENT/ZIG ZAG STITCH



Directions

Work from left to right. About three-fourths of an inch above the left end of the slit, bring needle out to the front side at 1. Cross thread over one warp and insert needle through textile to the reverse side at 2. Move about one inch to the right and about three-fourths of an inch below the opposite side of slit and bring the needle out to the front side at 3. Cross thread over one warp and insert needle through textile to the reverse side at 4. Move needle diagonally to the right, returning to the first side of the slit. Bringing needle out to the front side at 5 begins next stitch.

Comments

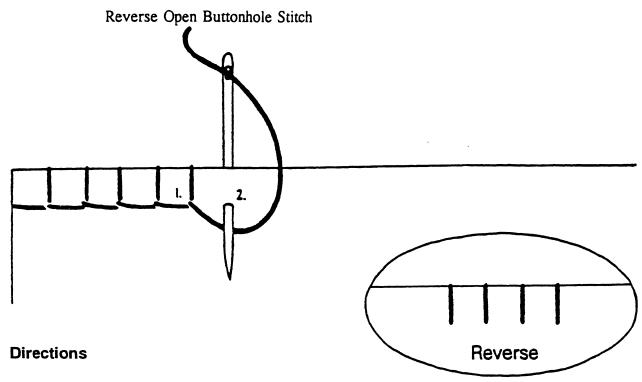
The Reinforcement Stitch is used as additional support on longer slits that have already been stabilized. It redistributes support into the stronger areas of the textile.

Possible uses for this stitch

Mounting
Reinforcing Weak Areas
Securing a Damaged Area to a Support Fabric

REVERSE BLANKET STITCH

Other name



Work from left to right. Bring needle out to the front side at 1. Move thread to the right and hold. Insert needle from the reverse side to the front side at 2. Pull needle through keeping held thread under point of the needle. Repeat.

Comment

This stitch is used on edges.

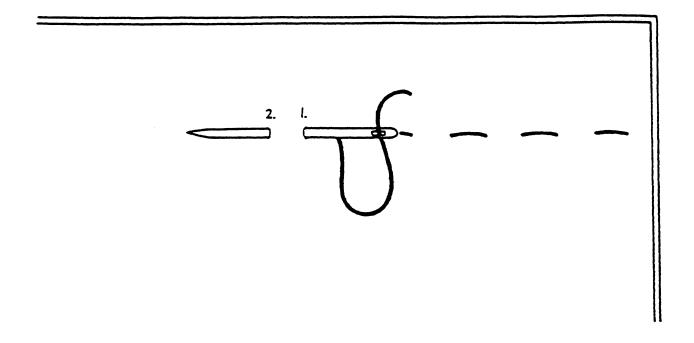
Possible uses for this stitch

Finishing and Stabilizing Edges Finishing and Stabilizing Warp Ends Reinforcing Selvedges

See also

Blanket Stitch

RUNNING STITCH



Directions

Work from right to left. Insert needle through fabric to the reverse side at 1 and bring out to the front side at 2. Repeat.

Comments

This stitch is used in joining two or more layers of fabric, in gathering, gauging, shirring, quilting and in seams not subjected to much strain. This stitch looks the same as the Basting Stitch but the stitches are shorter.

Possible uses for this stitch

Creating Seams
Joining Fabric
Mounting
Reinforcing Holes and Tears
Stabilizing Seams
Securing a Damaged Area to a Support Fabric

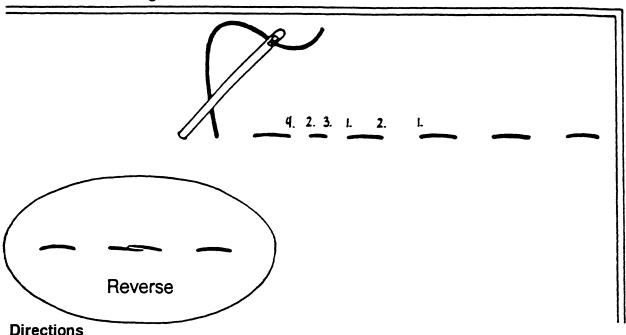
See also

Basting Stitch

RUNNING/BACK STITCH

Other names

Combination Stitch
Running/Back Combination Stitch



Work from right to left. <u>Running Stitch</u>: Insert needle through fabric to the reverse side at 1. Move to the left and bring needle out to the front side at 2. Repeat. <u>Back Stitch</u>: After completing a series of Running Stitches move half a completed stitch to the right and insert needle through fabric to the reverse side at 3. Moving to the left, bring needle out to the front side at 4 and begin another series of Running Stitches.

Comments

This stitch provides more strength than the Running Stitch. It is usually formed by inserting a Back Stitch between groups of three to four Running Stitches but this can be varied according to the strength required.

Possible uses for this stitch

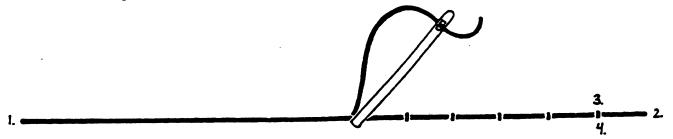
Creating Seams
Joining Fabric
Stabilizing Seams

Back Stitch	page 5
Half Back Stitch	page 19
Running Stitch	page 32

SELF COUCHING STITCH

Other names

Convent Stitch Klosterstich Span Stitch Spannstitch



Directions

Bring needle out to the front side at 1. Lay a long stitch in the warp or the weft direction and insert needle through the fabric to the reverse side at 2. Bring needle out to the front side at one side of the first stitch at 3. Lay thread across (perpendicular to) the first stitch and insert needle through fabric to the reverse side at 4. Repeat perpendicular stitches to secure the first stitch. If there is more than one row of stitches, vary the point where rows begin and end.

Possible uses for this stitch

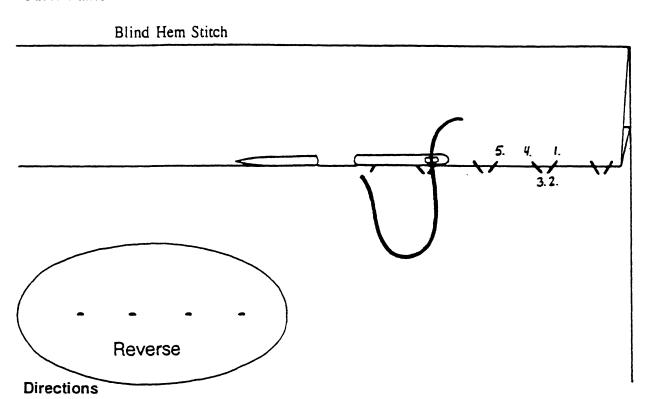
Closing Slits
Reinforcing Holes and Tears
Securing a Damaged Area to a Support Fabric
Securing Loose Threads to a Ground Fabric

Basic Couching Stitch	page 6
Laid and Couched Stitch	page 26

SLIP STITCH

Other name

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Work from right to left. Bring needle out to the front side through the top fabric layer at 1. Move needle slightly to the left and insert in the bottom layer of the fabric at 2. Catch a few threads and bring needle out to the front side at 3. Move the needle above to the top fabric, insert at 4 and slip between fabric layers of the fold. Bring out to the front side at 5 to begin the next stitch. Repeat.

Comments

This nearly invisible stitch is created by slipping the thread under a fold of fabric. It can be used to join two folded edges or one folded edge to a flat surface.

Possible uses for this stitch

Hemming Joining Fabric

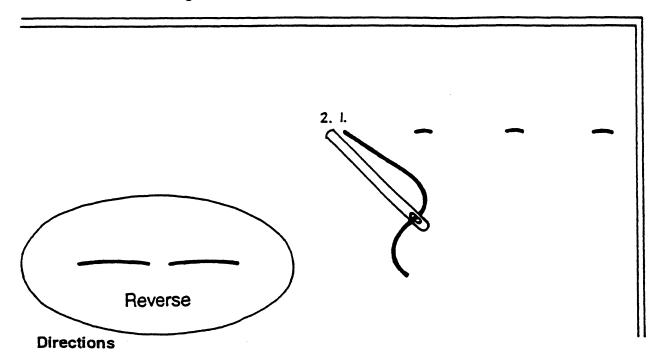
See also

Hemming Stitch

STAB STITCH

Other name

Piercing Stitch



Work from right to left. Bring needle out to the front side at 1, keeping needle perpendicular to the fabric. Move one small stitch length to the left and insert needle straight through fabric to the reverse side at 2. Move more than one stitch length to the left on the reverse side before bringing needle (still held perpendicular) out to the front side again. Repeat.

Comments

A series of these stitches create short stitches on the front side and long stitches on the reverse side, having the advantage of low visibility.

Possible uses for this stitch

Mounting

Securing a Damaged Area to a Support Fabric

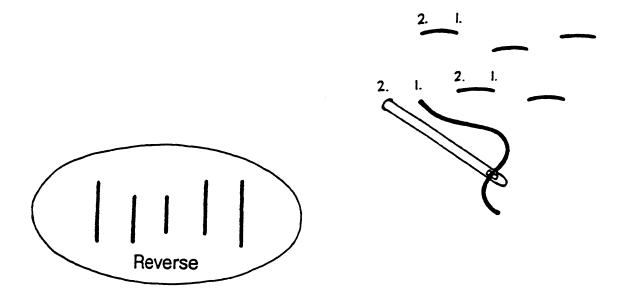
See also

Running Stitch page 32 Staggered Running Stitch page 37

STAGGERED RUNNING STITCH

Other name

Walls Of Troy Stitch



Directions

Work from right to left and hold the needle perpendicular to the textile. Bring needle out to the front side at l. Move to the left and insert needle through fabric to the reverse side at 2. Move to the left and up or down to execute next stitch.

Comments

This stitch is used to avoid sewing over the same weak warp or weft yarns. It is also used when the Stab Stitch or the Running Stitch would be too noticeable, such as on a flat, smooth or tightly woven fabric. It is not appropriate for use when the two fabrics would react differently to gravity or humidity.

Possible uses for this stitch

Attaching Linings, Dust Covers and Backings Mounting Securing a Damaged Area to a Support Fabric

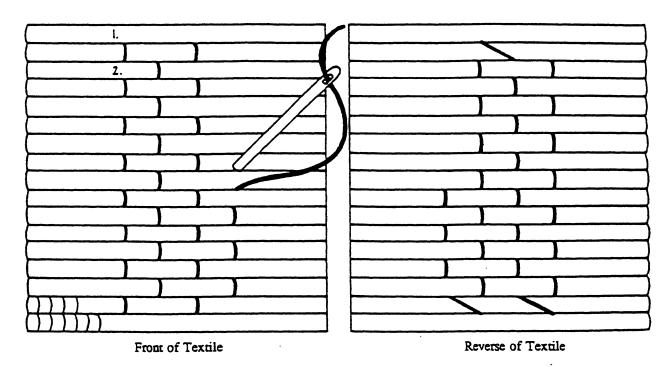
See also

Running Stitch page 32 Stab Stitch page 36

TABBY STITCH

Other name

Open Tabby Mend



Warp yarns are horizontal in this diagram

Directions

Anchor the thread in a stable area about four to six warp yarns from the area of deterioration. Bring needle out to the front side at 1, cross over one warp and insert needle through to the reverse side at 2. Pass under one warp and bring needle out to the front side. Continue going over and under alternate warps (duplicating the plain weave) through the deteriorated area and four to six warps into the next stable area. Move one fourth inch and repeat in opposite direction. If damage is severe, rows of stitches can be one eighth inch apart. The stitch rows will run parallel to the weft and will resemble the Running Stitch.

Comments

This is used to reinforce areas suffering from weft loss or degradation but not exhibiting obvious flaws such as tears, holes or open slits. If all of the weft is gone, use multiple strands of thread. This technique is an alternative to reweaving and replicates the plain weave.

Possible uses for this stitch

Reinforcing Weak areas Replacing Weft

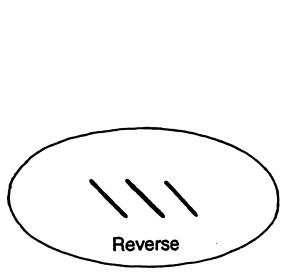
See also

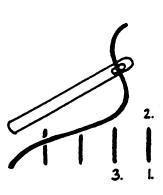
Running Stitch

TACKING STITCH

Other name

Reverse Half Cross Stitch





Directions

Bring needle out to the front side at 1. Move needle straight up, parallel to the warp or weft yarns and insert through fabric to the reverse side at 2. Move to the left but even with 1 and bring needle out to the front side at 3 to begin the next stitch.

Comments

This is a temporary stitch used to control layers of fabric. The stitches are straight on the front side and diagonal on the reverse side. The stitch size varies according to the size of the area covered and the amount of control required. Rows may be worked in any direction.

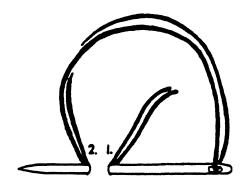
Possible uses for this stitch

Securing a Damaged Area to a Support Fabric Temporary Stitch

See also

Diagonal Basting Stitch page 15

TAILOR'S TACKS



Directions

Use one or two threads in a needle. At the point to be marked, insert needle through fabric to the reverse side at 1. Move slightly away and bring needle out to the front side at 2. Take one more stitch in the same place, leaving a thread loop of one inch or more. Cut thread, leaving a one inch tail.

Comment

This is a temporary stitch used to mark important points in a project.

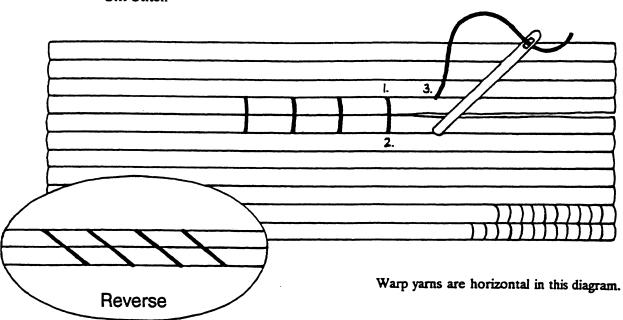
Possible use for this stitch

Temporary Stitch

TAPESTRY OVERCAST STITCH

Other name





Directions

Bring needle out to the front side at 1, one warp over from slit edge. Bring thread across slit in a straight line to far side of adjacent warp, insert needle through to the reverse side at 2. Cross slit in the opposite direction, move away slightly from first stitch and bring needle out to the front side at 3 to begin the next stitch. Repeat.

Comment

This is used on slits that were originally overcast.

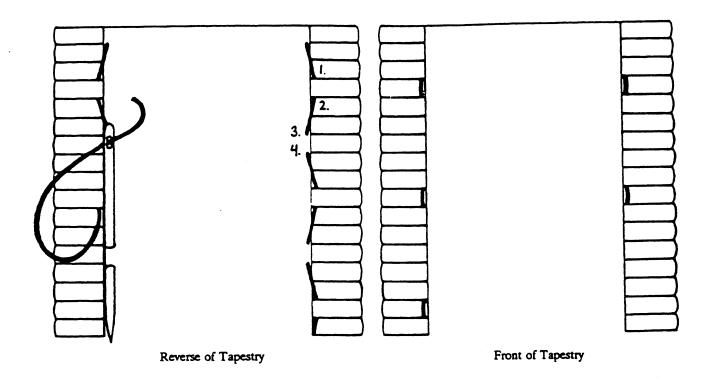
Possible use for this stitch

Closing Slits

TAPESTRY STRAP STITCH

Other name

Running Hem Stitch



Warp yarns are horizontal in this diagram.

Directions

Work from the reverse side of the textile. Anchor thread in the strap. Insert the needle between warp yarns of the tapestry and bring out to the tapestry front side at 1. Cross over one warp and insert needle to the tapestry reverse side at 2. The next stitch is done only in the strap (fabric). Insert needle through the strap to the reverse side at 3. Bring needle out to the front side of the strap at 4. Continue alternating stitches between tapestry and the strap.

Comments

This stitch is used when attaching fabric, straps, etc. to a tapestry in the vertical direction. Use a continuous thread, adding additional thread with a weaver's knot, if necessary. Stitches should run in a straight line to facilitate a straight hanging of the piece.

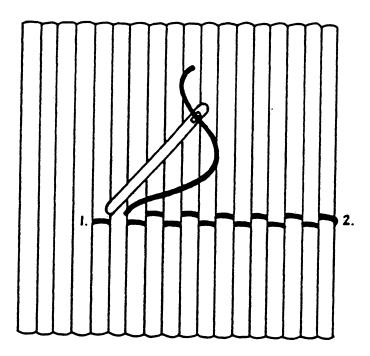
Possible uses for this stitch

Attaching Linings, Dust Covers and Backings Hemming

WRAPPING STITCH

Other name

Figure 8 Wrapping Stitch



Directions

Begin and end rows of stitches in a stable area of the textile.

Bring needle out to the front side at 1 and weave across the yarns, going over and under alternate yarns. Wrap the thread around the last yarn at 2 and weave it back into the textile. On the return row, insert the needle over and under opposite yarns than in the previous row.

Comments

This stitch is one of the first treatments undertaken when selvedges or ends begin to deteriorate. It may be used to secure two or more yarns.

Possible uses for this stitch

Finishing and Stabilizing Edges Reinforcing Selvedges

LIST OF REFERENCES

100 Embroidery Stitches. Glasgow, Scotland: Anchor Embroidery Stitches, 1967.

Birrell, Verla. The Textile Arts. New York, NY: Harper & Row, 1959.

Brown, E.; Faile, F.; and Fishman, S. "Plain Sewing and Embroidery Basic Stitches." Handout distributed at the Second Stitching Symposium of the Textile Conservation Group. New York, NY: January 1990. Photocopied.

Clabburn, Pamela, and Von Rosenstiel, Helene. <u>The Needleworker's Dictionary</u>. New York, NY: William Morrow and Co., 1976.

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Complete Guide to Needlework. Pleasantville, NY: The Reader's Digest Association, Inc., 1979.

Complete Guide to Sewing. Pleasantville, NY: The Reader's Digest Association, Inc., 1978.

de Dillmont, Therese. <u>The Complete Encyclopedia of Needlework</u>. Philadelphia, PA: Running Press, 1972; reprint of 19th century DMC book.

DMC Encyclopedia of Needlework. Philadelphia, PA: Running Press, 1978.

Ennes, A.H. "The Stabilization of Edges and Ends; Gradations of Intervention." <u>The Textile Museum Journal</u> 29-30 (1990-1991): pages 34-41.

Fenyvesi, L. "Stitches for Conservation." Presented at the Second Stitching Symposium of the Textile Conservation Group. New York, NY: January 1990. Photocopied.

Finch, Karen, and Putnam, Greta. <u>The Care and Preservation of Textiles</u>. London, England: B.T. Batsford Ltd., 1985.

Flury-Lemberg, Mechthild. <u>Textile Conservation and Research</u>. Bern, Switzerland: Schriften der Abegg-Stiftung, 1988.

Gostelow, Mary. The Complete Guide to Needlework Techniques and Materials. New Jersey: Chartwell Books, Inc., 1982.

Landi, Sheila. The Textile Conservator's Manual. London, England: Butterworth's, 1985.

Leene, Jentina E., ed. <u>Textile Conservation</u>. Washington, D.C.: Smithsonian Institution Press, 1972.

Morrell, A. <u>The ATN Guide to Structural Sewing Terms and Techniques</u>. Manchester, England: Archeological Textile Newsletter, 1990.

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One Hundred Embroidery Stitches. New York, NY: Coats and Clark's Book No. 150, 1964.

Picken, Mary Brooks. <u>Modern Dressmaking Made Easy</u>. New York, NY: Funk and Wagnalls Co., 1943.

Proctor, Richard N. and Lew, Jennifer F. <u>Surface Design for Fabric</u>. Seattle, WA: University of Washington Press, 1984.

Ryan, Mildred Graves. <u>The Complete Encyclopedia of Stitchery</u>. Garden City, NY: Doubleday & Co., Inc., 1979.

Stitch Guide. A Study of the Stitches on the Embroidered Samplers in the Collection of the Cooper-Hewitt Museum, Smithsonian Institution. New York, NY: Smithsonian Institution Press, 1984.

"Stitches Used in Textile Conservation." CCI-IIC Notes #13/10. Ottawa, Canada: Canadian Conservation Institute.

Swift, Gay. The Larousse Encyclopedia of Embroidery Stitches. New York, NY: Larousse & Co., Inc., 1984.

Thomas, Mary. Mary Thomas's Dictionary of Embroidery Stitches. London, England: Hodder and Stoughton, 1934.

Vogue Sewing. New York, NY: Harper and Row, 1958, 1980, 1982.

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