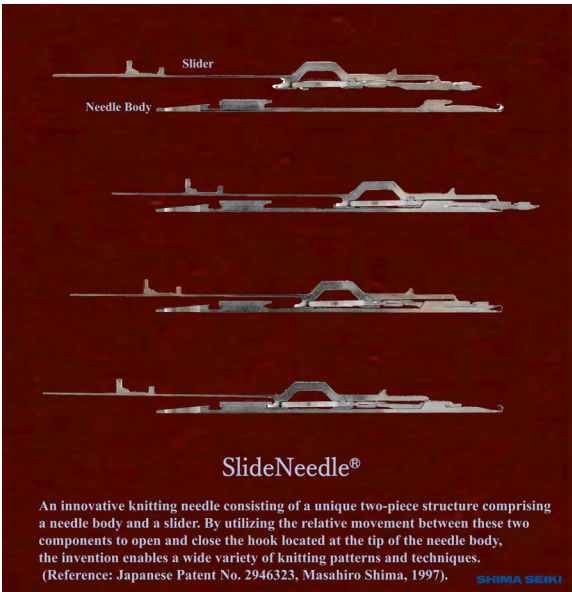
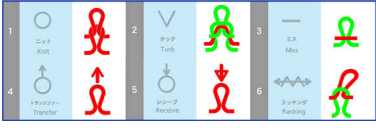
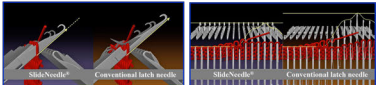
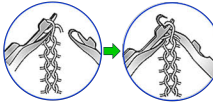
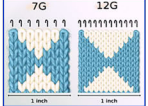


**The four-needle-bed WHOLEGARMENT<sup>®</sup> flat knitting machine and the revolutionary versatile knitting needle that expanded knitting possibilities**

|                   |                    |                       |            |
|-------------------|--------------------|-----------------------|------------|
| Registration No.  | Number 00398       |                       |            |
| Registration Date | September 29, 2026 | Registration Category | Category 1 |

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|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name<br>(Model, etc.)     | SlideNeedle <sup>®</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Location                  | Wakayama-shi, Wakayama                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                           | SHIMA SEIKI Fusion Museum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Owner<br>(Custodian)      | SHIMA SEIKI MFG., LTD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Manufacturer<br>(Company) | SHIMA SEIKI MFG., LTD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Year Manufactured         | 1997                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reason For<br>Selection   | This item is a revolutionary multi-functional knitting needle that surpassed the performance of the conventional latch needle used for more than 150 years by: (1) enabling the practical realization of four-needle-bed flat knitting machines capable of producing high-quality WHOLEGARMENT <sup>®</sup> knitwear; (2) increasing knitting speeds achieved by reducing both needle stroke and carriage movement during knitting and transfer operations; (3) creating a wider variety of knit structures and patterns through loop-transfer functions, allowing loops to remain held on the needle while additional loops are received and transferred by the slider; and (4) enabling gauge-free knitting by significantly broadening the range of yarn thicknesses and stitch densities that can be knitted on a single machine, reducing limitations due to fixed machine gauge and improving manufacturing flexibility. These groundbreaking capabilities make the SlideNeedle <sup>®</sup> an essential technology not only for the creation of high-value-added knitwear, but also for the development of advanced knitted materials for industrial applications across a wide range of industries in the future. |
| Registration Criteria     | 1-C (Contributed to the creation of a new scientific or technological field.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                           | 2-A (Played a notable role in improving people's way of life and creating new ways of living.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Open/Closed<br>to the Public | Open to the Public                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Photos                       |  <p><b>SlideNeedle<sup>®</sup></b></p> <p>An innovative knitting needle consisting of a unique two-piece structure comprising a needle body and a slider. By utilizing the relative movement between these two components to open and close the hook located at the tip of the needle body, the invention enables a wide variety of knitting patterns and techniques.<br/>(Reference: Japanese Patent No. 2946323, Masahiro Shima, 1997).</p> <p><b>● Conventional Knitting Techniques</b></p>  <p><b>● Expanded Knitting Techniques</b><br/>=&gt; Doubled to 12 Different Techniques</p>  <p><b>● Reduced Needle Stroke</b></p>  <p><b>● Transfer Performed by Slider while Needle Holds Loop</b></p>  <p><b>● The Significance of Gauge</b><br/>-Expanding the Range of Options for Coarseness and Fineness-</p>  |
| Other useful<br>information  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |