

## AUTOMATIC SEWING SYSTEM

*This opportunity offers a unique approach to joining cloth without thread.*

*Using a high-pressure jet of fluid, fibers of cloth pieces are woven together efficiently, securely, and safely.*

*A retractable shielding plate enables the sewing to stop and start instantaneously.*

### **PATENTED TECHNOLOGY**

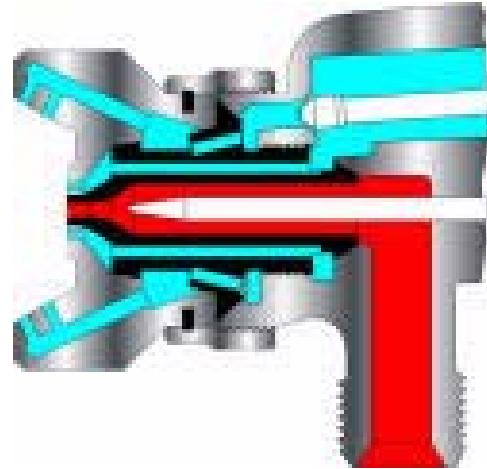
U.S. patent 4,984,340 protects the process of using streams of highly-pressurized liquid to collide with cloth fibers to effectively intertwine and sew the fibers of the cloth together. Additional features include:

- Device to hold the pieces of cloth together.
- Water streams compressed to pressures between 300 and 1000 kgf/cm<sup>2</sup>.
- Nozzle diameters between 0.01 and 0.05 mm.
- Covering unit to suction and remove excess water from material while it is being sewn together.
- Jet streams are directed from opposite sides to the same point of contact on the cloth pieces to intertwine the fibers.

The system permits the nozzles to move relative to the cloth for convenience and efficiency.

### **INTELLECTUAL CAPITAL**

On April 1, 2001, Japan's National Institute of Advanced Industrial Science and Technology began operations as the "new" AIST.



The new AIST is a research organization that comprises 15 research institutes previously under the former Agency of Industrial Science and Technology in the Ministry of International Trade and Industry and the Weights and Measures Training Institute.

AIST is Japan's largest public research organization with research facilities and more than 3,200 employees across Japan.

### **FOR MORE INFORMATION**

AIST is seeking to license these technologies and assist with their commercialization success to qualified organizations.

Consideration will be provided to a range of financial, strategic, and commercial investment options.

Certain circumstances will warrant consideration for nominal funding from AIST.

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