

The method of optical fiber mass production developed in Japan

Registration No.	Number 00274		
Registration Date	September 10, 2019	Registration Category	Category 2

Name (Model, etc.)	Apparatus for Production of Optical Fiber Base Material Using the VAD Method
Location	Musashino-shi, Tokyo
	NTT History Center of Technologies
Owner (Custodian)	NTT Information Network Laboratory Group
Manufacturer (Company)	Hayakawa Iron Works
Year Manufactured	In around 1977
Year first appeared	1977
Reason For Selection	The experiment apparatus used to develop the vapor-phase axial deposition (VAD) method of mass-producing silica-based optical fiber. The deposition unit, the rarefaction unit, the fiber-drawing unit, the control unit, and an improved raw material feeder are preserved. The experiment data became the basis for the announcement of the VAD method at the International Conference on Integrated Optics and Optical Fiber Communication held in Tokyo in July 1977 (IOOC '77). Today, approximately 60% of optical fiber in the world for communication (and over 90% in Japan) is manufactured based on this VAD method, and it is valuable as a technology supporting the communication infrastructure.
Registration Standard	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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Other useful information	