

2007 C&C Prize

for pioneering contributions to research and development resulting in low-loss optical fiber

Dr. Robert D. Maurer

Research Fellow, Corning Incorporated (Retired)

Dr. John B. Machesney

Fellow, Bell Laboratories (Retired)

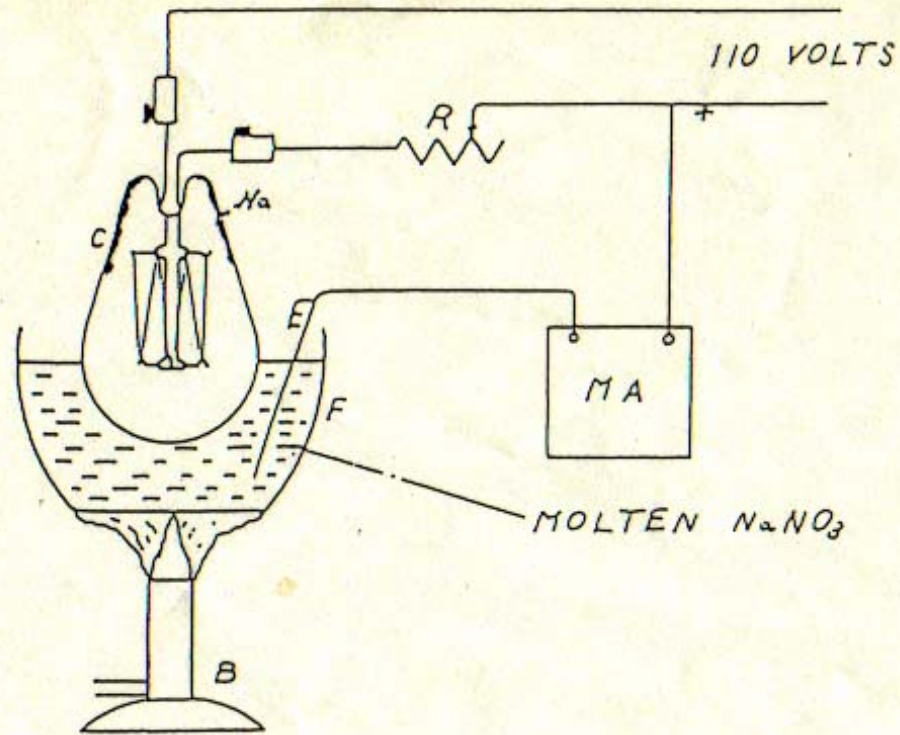
Dr. Tatsuo Izawa

Executive Vice President, Tokyo Institute of Technology
Former President and CEO, NTT Electronics Corporation

Beginning of my Fiber Research

- 1969: Dr. Someya (NEC) brought a piece of Selfoc fiber to Prof. Kamiyama.
- We discussed how to make Selfoc fiber and how to use.
- Prof. Kamiyama told me about an old paper to make a photo tube.

Photo Tube Fabrication in 1925

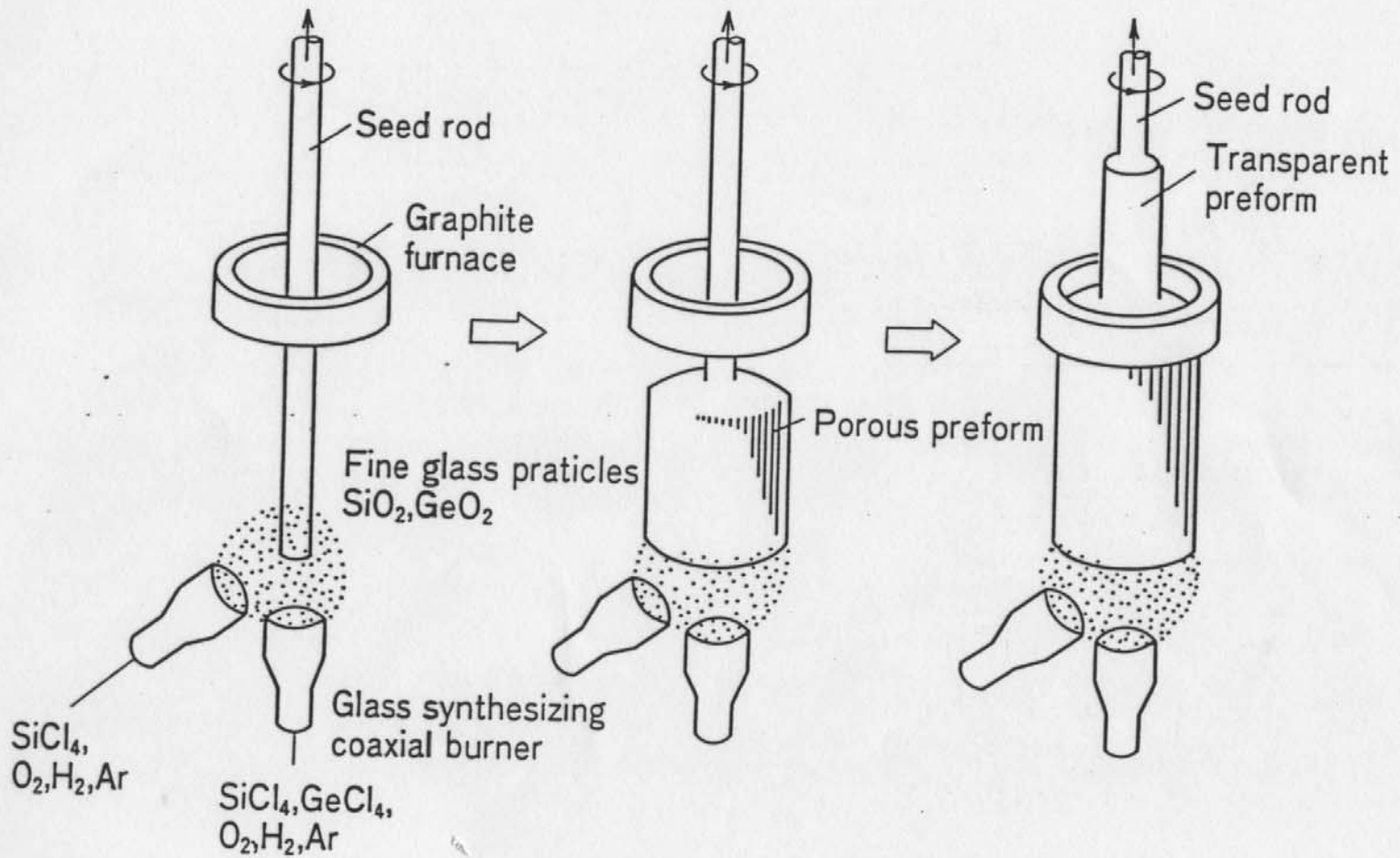


J.O.S.A.&R.S.I.11 July,1925

SODIUM BY ELECTROLYSIS THROUGH GLASS
RELATED EXPERIMENTS ON FARADAY'S LAWS, SODIUM ARC AND
RESONANCE RADIATION

BY ROBERT C. BURT

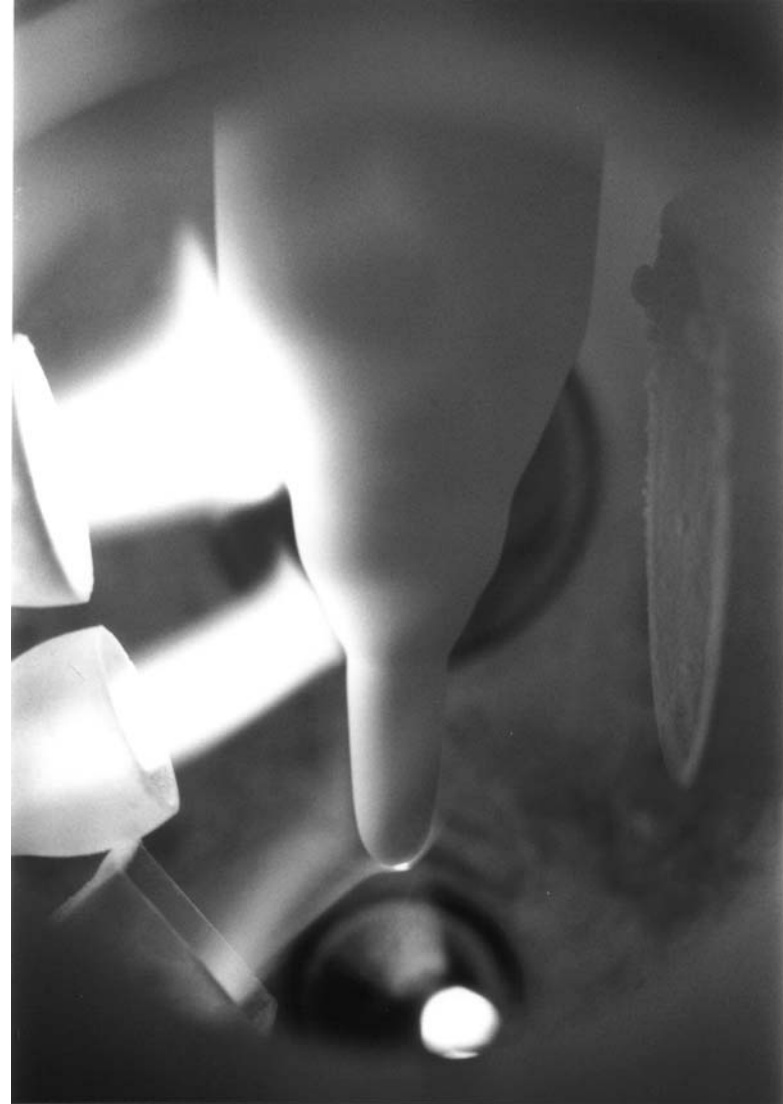
Schematic Diagram of VAD method



Instruments for VAD method



Growth of Porous Preform



Success in Transparent consolidation



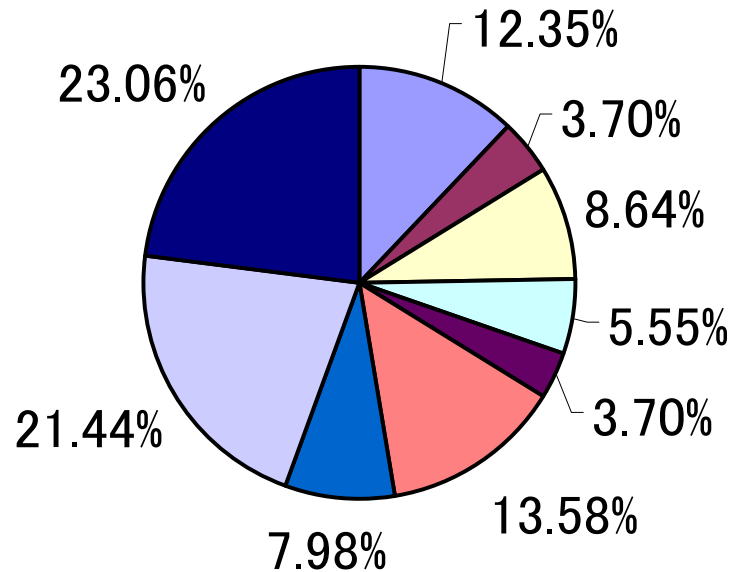
Latest Fiber Preform



Helium Gas Consumption in Japan

Source: Japan Industrial Gases Association

<http://www.jiga.gr.jp/english/index.html>



Total: 16.5million m3 (2006)

Optical Fiber

Analysis

Leak Detector

Welding

Balloon

Semiconductor Industry

Cryogenics

MRI,NMR

Others