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Adhesive Bubble Removal Method And Apparatus For Fiber Applications

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DESCRIPTION

This invention relates to a piece of apparatus used in connection with a centrifuge for removing bubbles or voids from fiber optic liquid adhesive present in a fiber optic termination or connection prior to the bonding of the optical fiber. The assembly comprises: an elongated body with an upper end with a seat for receiving a ferrule of a fiber optic termination or connection; a piston and sealing unit having a resilient end for abutting a tip of the ferrule of the termination or connection and closing off an axial bore; and an elongated end cap for receiving the ferrule of the fiber optic termination or connection.

FEATURES AND BENEFITS

- Bubbles and voids in uncured adhesives can be responsible for optical fiber cracks developed during the curing process. By using the centrifuge and therefore avoiding the need for the vacuum method of bubble or void removal the chemistry of the adhesive doesn't change.
- The properties that remain unaffected by not using the vacuum method are: pot life, hardness, glass transition temperature and bond strength.
- The cumbersome, inefficient, time consuming and costly qualities of the vacuum method are avoided.

APPLICATIONS

- Hydrodynamics
- Turbo Machinery
- Polymer Processing
- Fluid Flow Applications

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-13874-1, please contact:

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