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(54) **Method for producing twisted optical fiber with reduced polarization mode dispersion**

(57) A method for drawing an optical fiber having reduced polarization mode dispersion (PMD) comprising the steps of drawing an optical fiber from an optical fiber preform whose core ovality is at max about 3%, coating the said optical fiber with acrylic polymer and twisting the said coated optical fiber with a pair of spinning wheels. The step of spinning the fiber is characterised in that the spin function used to spin the fiber is a combination of four discrete spin rates which repeat itself in a periodic fashion after a certain length of fiber drawn and the spin rate of each spin function varies in a trapezoidal manner along the drawn length of the fiber.

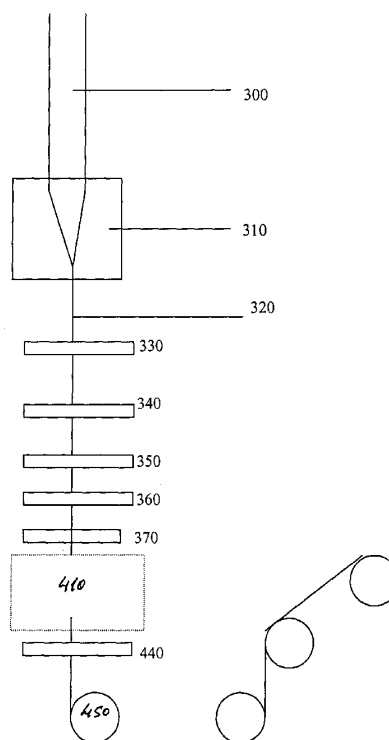


Fig. 1