

ABSTRACT OF THE DISCLOSURE

OPTICAL-FIBER COUPLER AND MANUFACTURING PROCESS THEREFOR

5 In an optical-fiber coupler formed by disposing two
single-mode optical fibers 1 and 2 in parallel, and fusing
and elongating the optical fibers at one position in the
longitudinal extent of the optical fibers 1 and 2, variation
of insertion loss dependent on the polarization can be
10 eliminated in its manufacturing by imparting a twist to the
optical coupling part 3' of the fused-elongated portion 3 so
that with respect to the direction of a line on a plane
orthogonally intersecting the longitudinal direction of the
optical fibers 1 and 2, the line linking the centers of the
15 two optical fibers 1 and 2, the direction of the line on a
plane at one end of the optical coupling part 3' of the
fused-elongated portion 3 makes an angle of 90 degrees with
the direction of the line on a plane at the other end of the
optical coupling part 3'.

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