

ABSTRACT OF THE DISCLOSURE

An optical switch 1 of the present invention comprises an optical fiber arraying member 21 for keeping a plurality of first optical fibers 20
5 juxtaposed with tip portions thereof being aligned, a movable arm 31, opposed to the optical fiber arraying member, for holding a tip portion of at least one second optical fiber 30, a driving mechanism 40 for driving this movable arm 31 to selectively optically
10 coupling the second optical fiber 30 with an arbitrary first optical fiber 20, a supplying mechanism 60 for, when a first optical fiber 20 is optically coupled with the second optical fiber, dropping and charging an index matching agent to a gap between these optical
15 fibers 20, 30, and drop controllers 67, 68 for controlling the supplying mechanism 60, wherein the index matching agent is dropped and charged into only the gap between the optical fibers, so that foreign matter produced in the driving mechanism 40 or the like
20 is prevented from intruding into the coupling part between the optical fibers 20, 30, thus assuring stable optical characteristics.

