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JNIVERSITI MALAYA

A Microfiber- based Integrated Interferometer



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- TRL 4

PATENT/ GRANTED NUMBER

• MY-184752-A



TECHNOLOGY OVERVIEW

An microfiber-based integrated interferometer comprises a Sagnac loop formed at one end by bending a microfiber to form the loop and a pair of extensions stretching away from the loop thereof; a first optical coupling structure and a second optical coupling structure, formed by intertwining the pair of extensions; a Mach-Zehnder interferometer constituted of a pair of arms, a first arm and a second arm, spanning in between the first and second optical coupling structures that the first and second arms are unequal in length; a light input and light throughput respectively constituted of the pair of extensions projecting from the second optical coupling structure; and a drop port, characterized in that the drop port is positioned at the light input; whereby the transmission spectra of the integrated interferometer is adjustable via varying dimension of the first optical coupling structure and the length difference in between the first and second arms.

CONTACT US!

Dr. Lee Ching Shya, RTTP UMCIE Business Officer Email: <u>leecs@um.edu.my</u> Phone: +603 – 7967 7352 / 013-2250151