

(12) PATENT APPLICATION PUBLICATION

(21) Application No.7349/DELNP/2013 A

(19) INDIA

(22) Date of filing of Application :20/08/2013

(43) Publication Date : 23/01/2015

(54) Title of the invention : RECONFIGURABLE OPTICAL ADD DROP MULTIPLEXER AND OPTICAL NETWORK ELEMENT

(51) International classification	:H04J14/02
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/EP2011/053852
Filing Date	:15/03/2011
(87) International Publication No	:WO 2012/123022
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
Address of Applicant :SE 164 83 Stockholm Sweden

(72)Name of Inventor :
1)TESTA Francesco
2)DERRICO Antonio
3)CASANOVA Mauro Rudi

(57) Abstract :

A reconfigurable optical add-drop multiplexer (10) comprising an input (20), an output (22), drop outputs (30), add inputs (22), a demultiplexer (18), a cross-connect element (12), a drop element (34) and an add element (26). The cross-connect element (12) comprises cross-connect outputs (36), a by-pass output (38), and optical switches (14) connected together as a first switch array. The drop element (34) comprises optical switches (14) connected together as a second switch array. The add element (26) comprises optical switches (14) connected together as a third switch array. Each optical switch (14) comprises a first input (13), a second input (15), a first output (17) and a second output (19). Each optical switch is arranged to deliver a first optical signal received at the first input to the first output. Each optical switch (14) is arranged to receive a respective control signal arranged to cause the optical switch to route a second optical signal received at its second input to a selected one of its first output and its second output.

No. of Pages : 32 No. of Claims : 12