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Goldstein et al.

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(54) **SYSTEM AND METHOD OF WAVELENGTH
ADD/DROP MULTIPLEXING HAVING
CLIENT CONFIGURABILITY**

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patent is extended or adjusted under 35
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Related U.S. Application Data

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1999, and provisional application No. 60/204,452, filed on
May 16, 2000.

(51) **Int. Cl.**⁷ **H04J 14/00**; H04J 14/02;
G02B 6/26; G02B 6/42

(52) **U.S. Cl.** **398/45**; 398/51; 398/54;
398/83; 385/17; 385/18

(58) **Field of Search** 398/45, 51, 54,
398/83, 82; 385/17, 18

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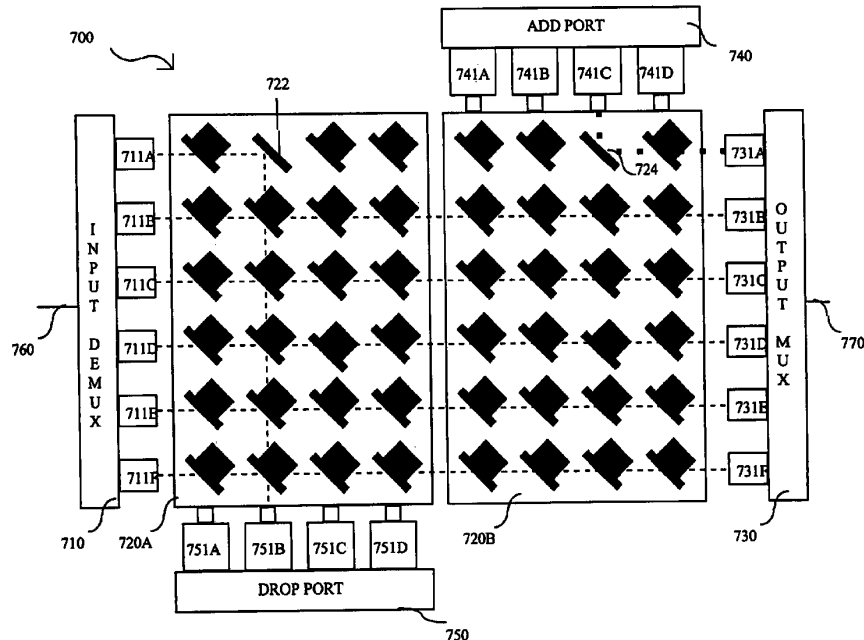
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Primary Examiner—M. R. Sedighian

(57) **ABSTRACT**

An optical carrier drop/add transmission system and method
for adding a signal to multiplexed input optical signals
conveyed by an optical multiplex input line. The multi-
plexed input optical signals are demultiplexed to provide
isolated input optical signals to an optical switch matrix
comprising switches in an array of lines and columns, the
isolated input optical signals being inputted in a direction
parallel to a line of switches in the optical switch matrix. The
added optical signal is input in a direction parallel to a
column in the optical switch matrix. An output line is
selected and the switch that is on the column on which the
added optical signal is inputted and on the selected output
line is switched.

10 Claims, 9 Drawing Sheets



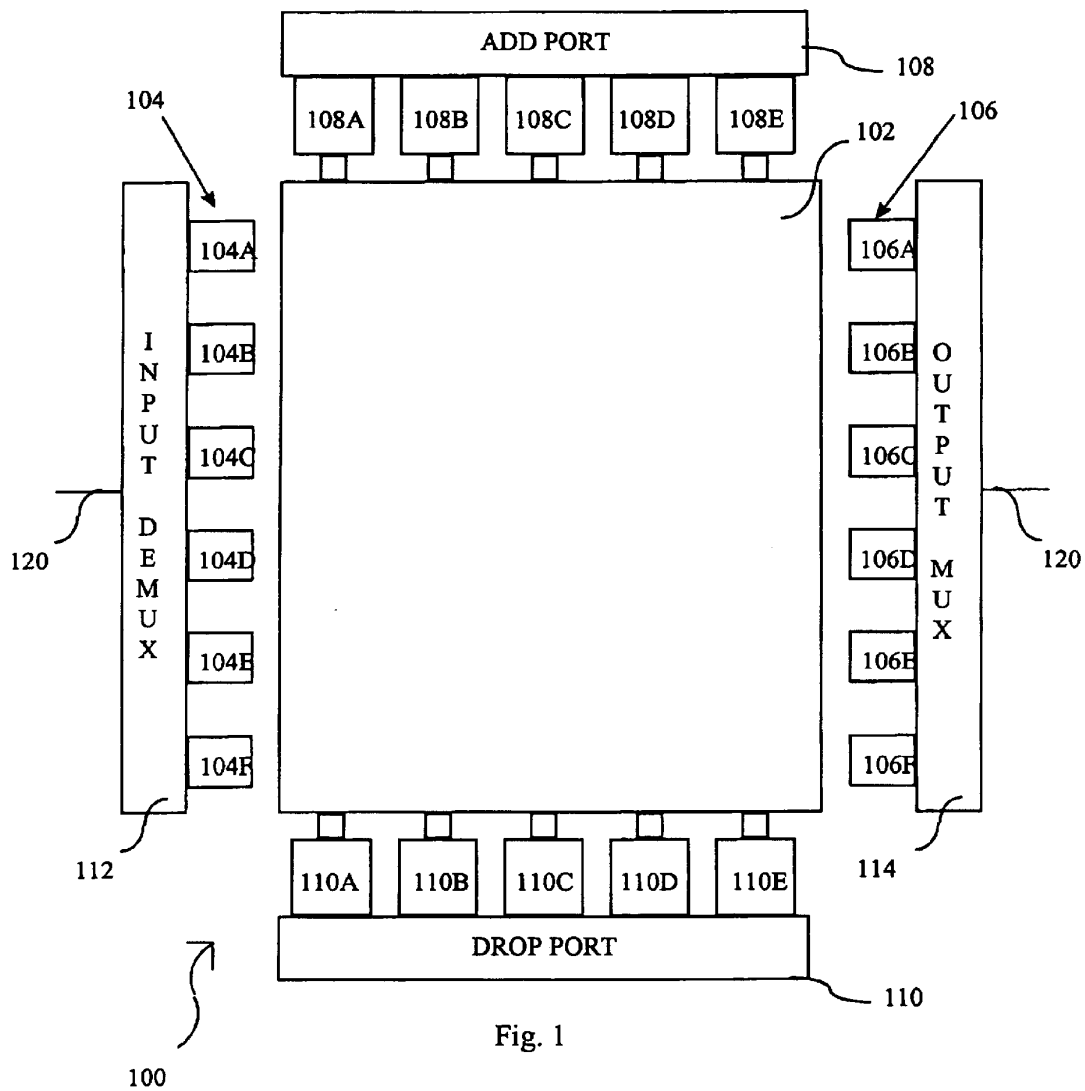
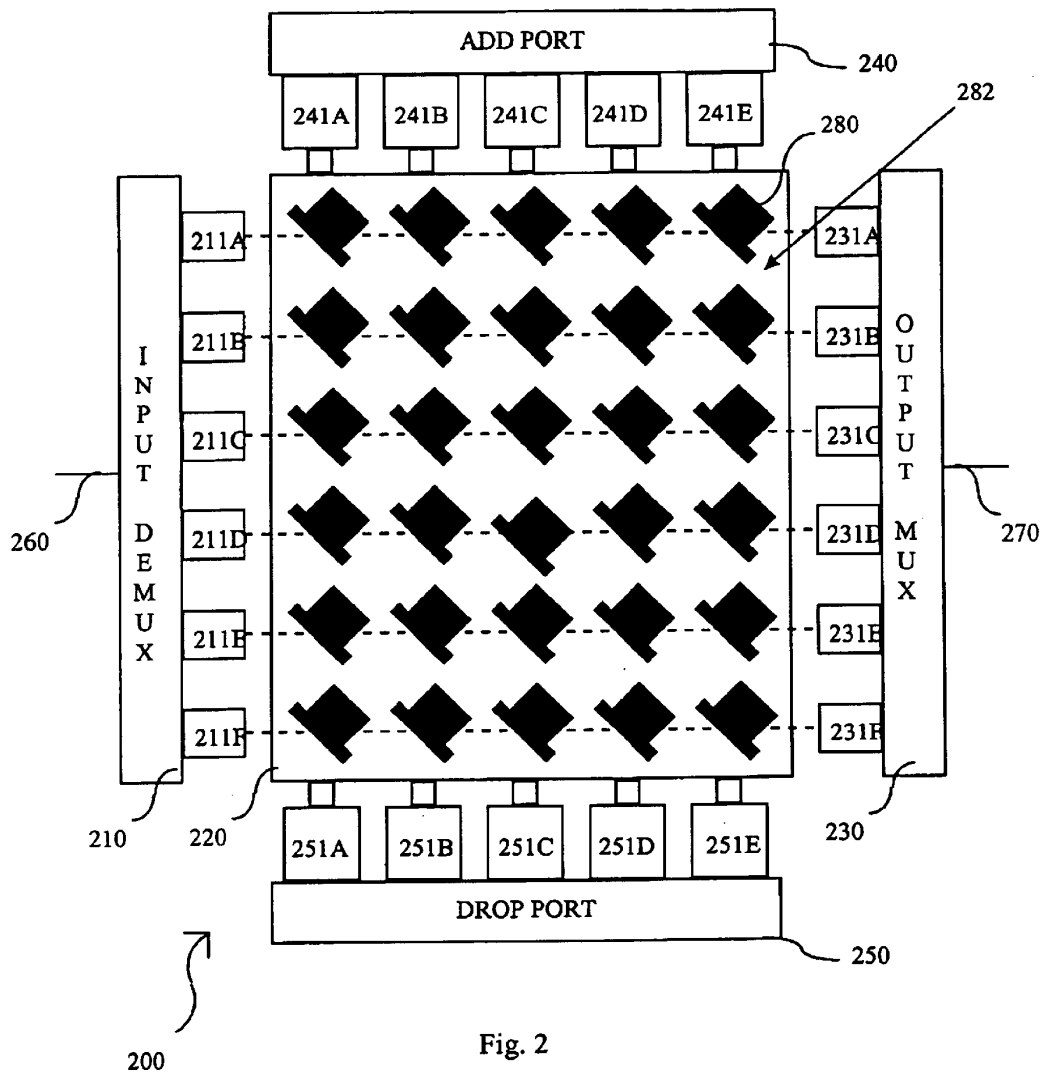


Fig. 1



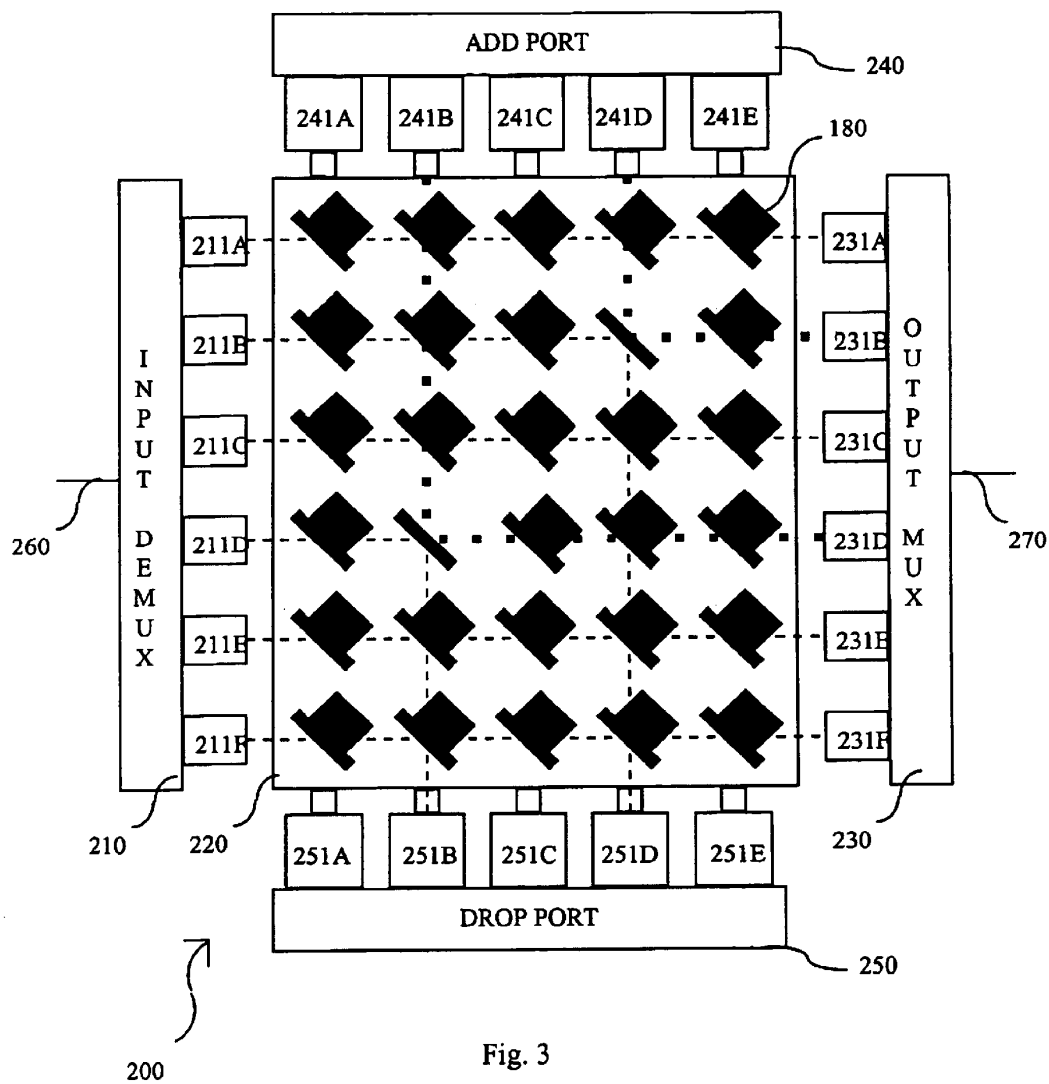


Fig. 3

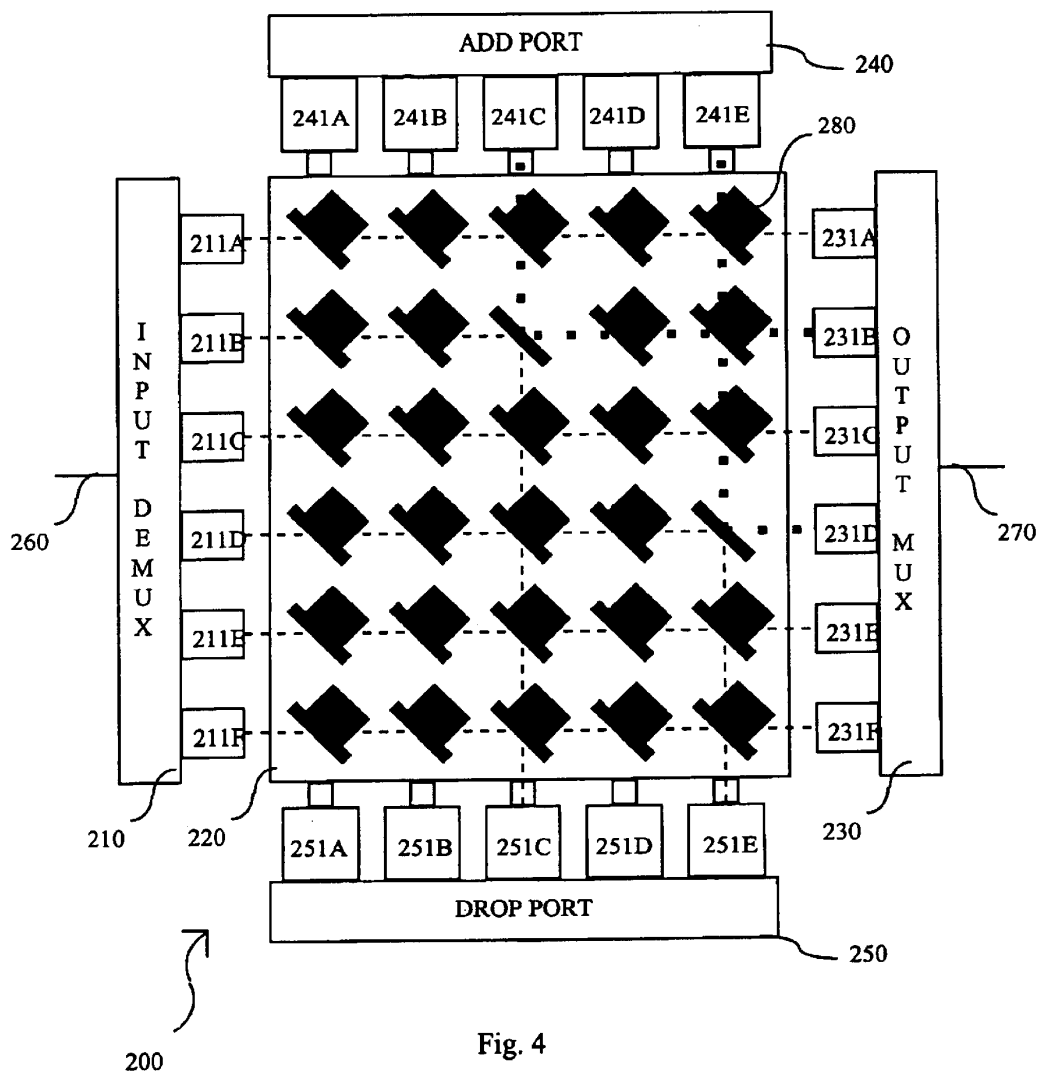


Fig. 4

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