

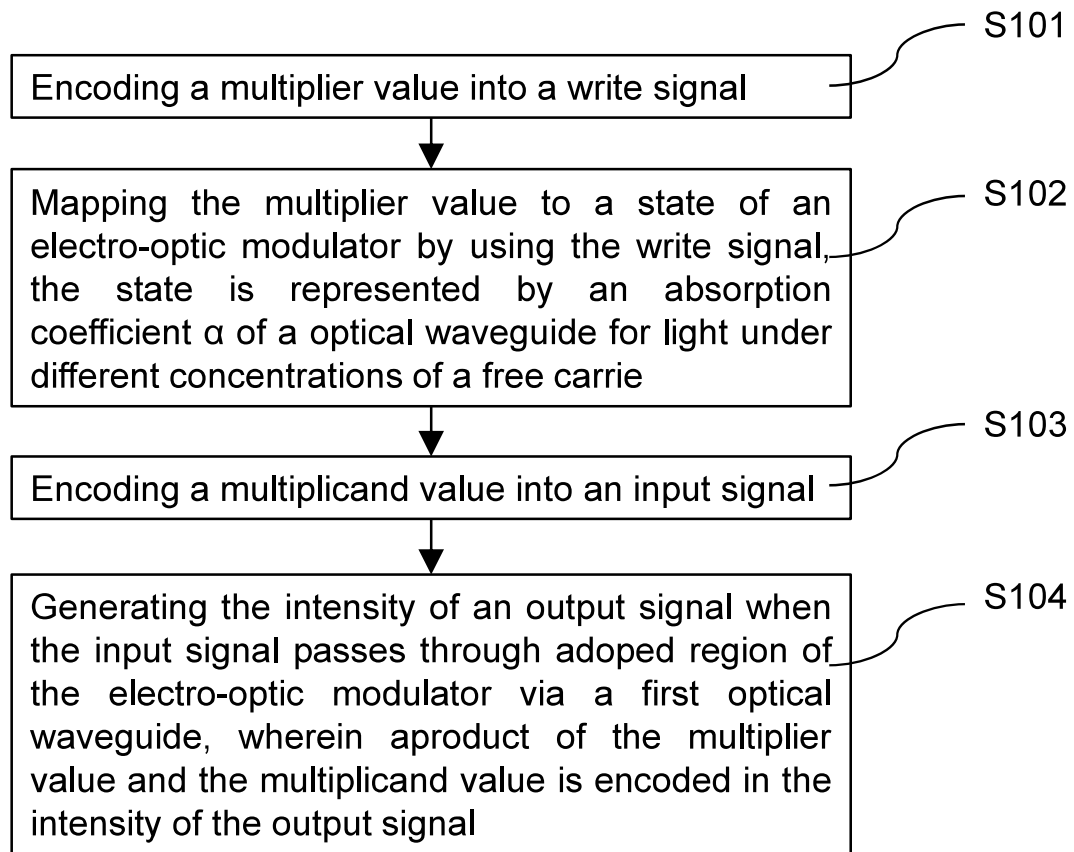


Fig. 1

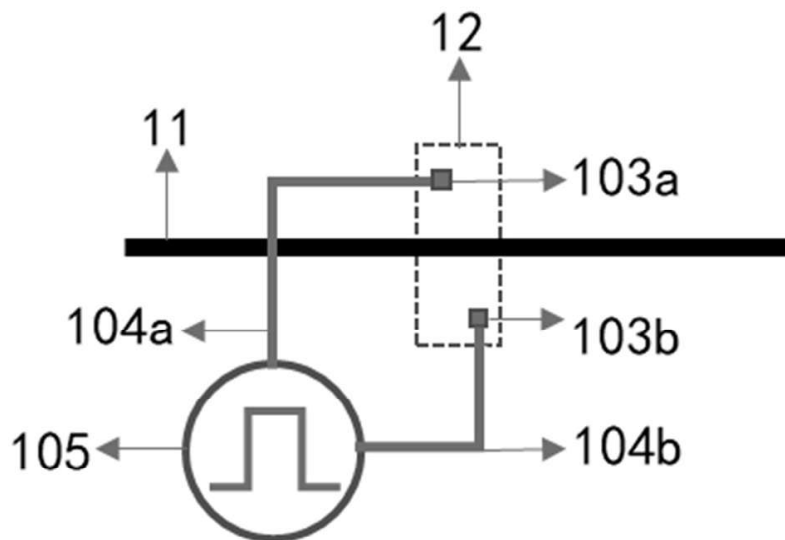


Fig. 2

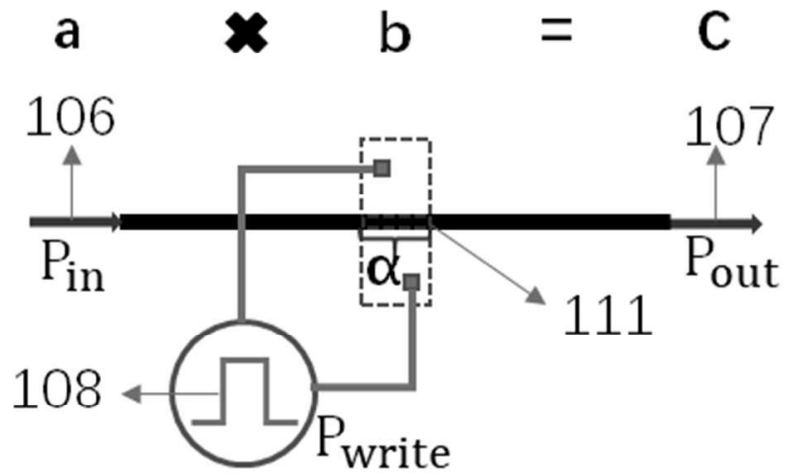


Fig. 3

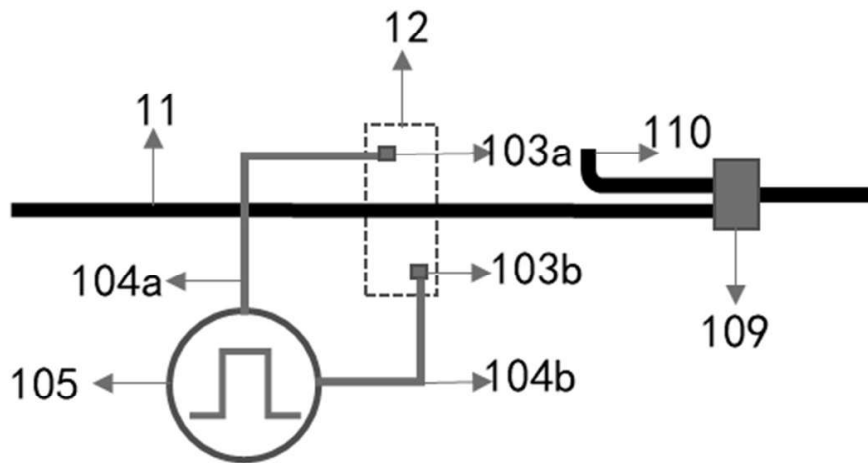


Fig. 4

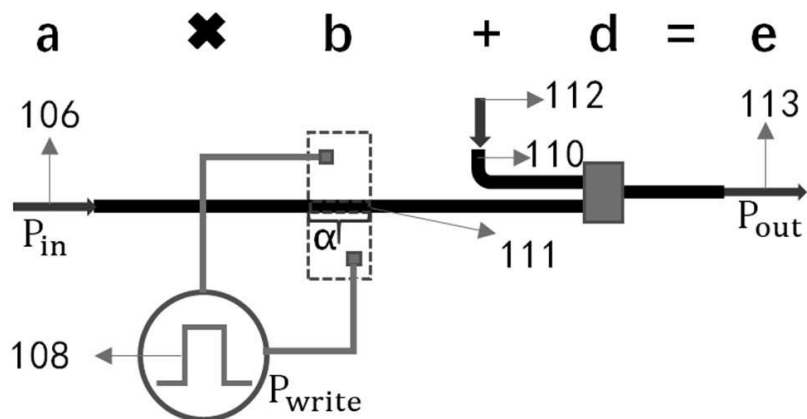


Fig. 5

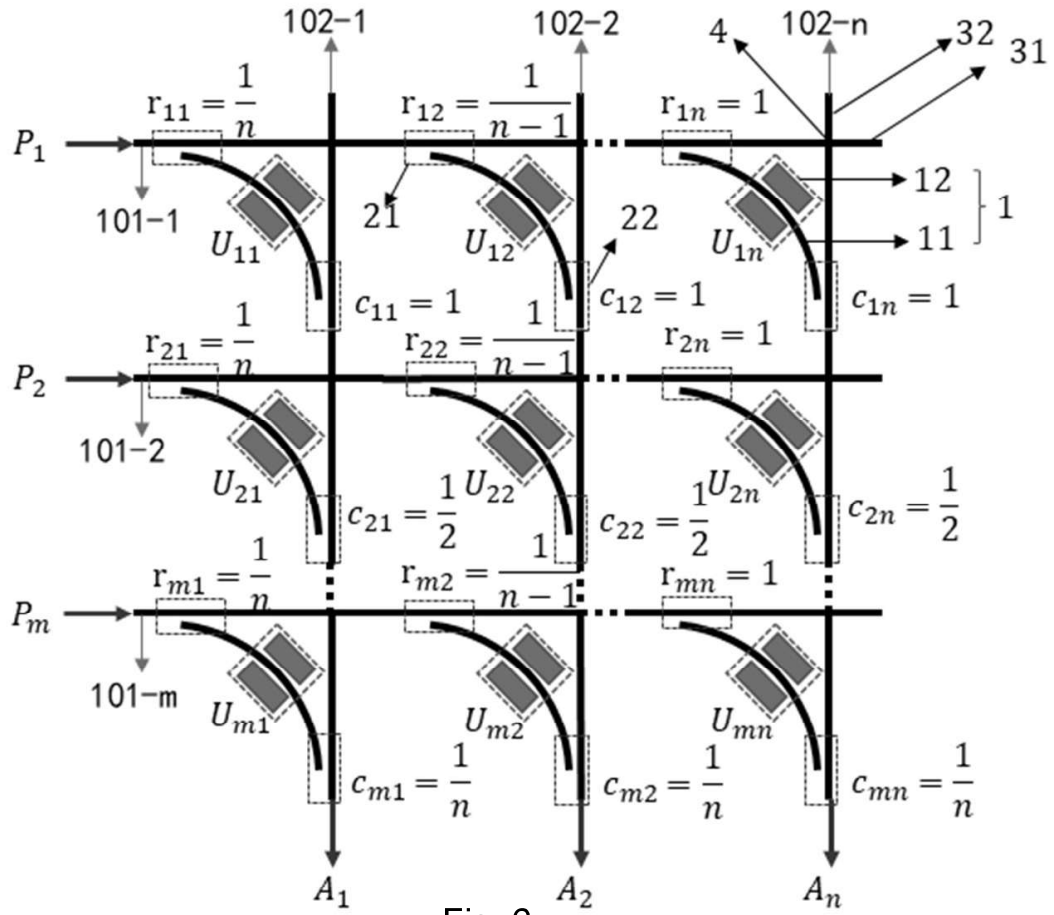


Fig. 6

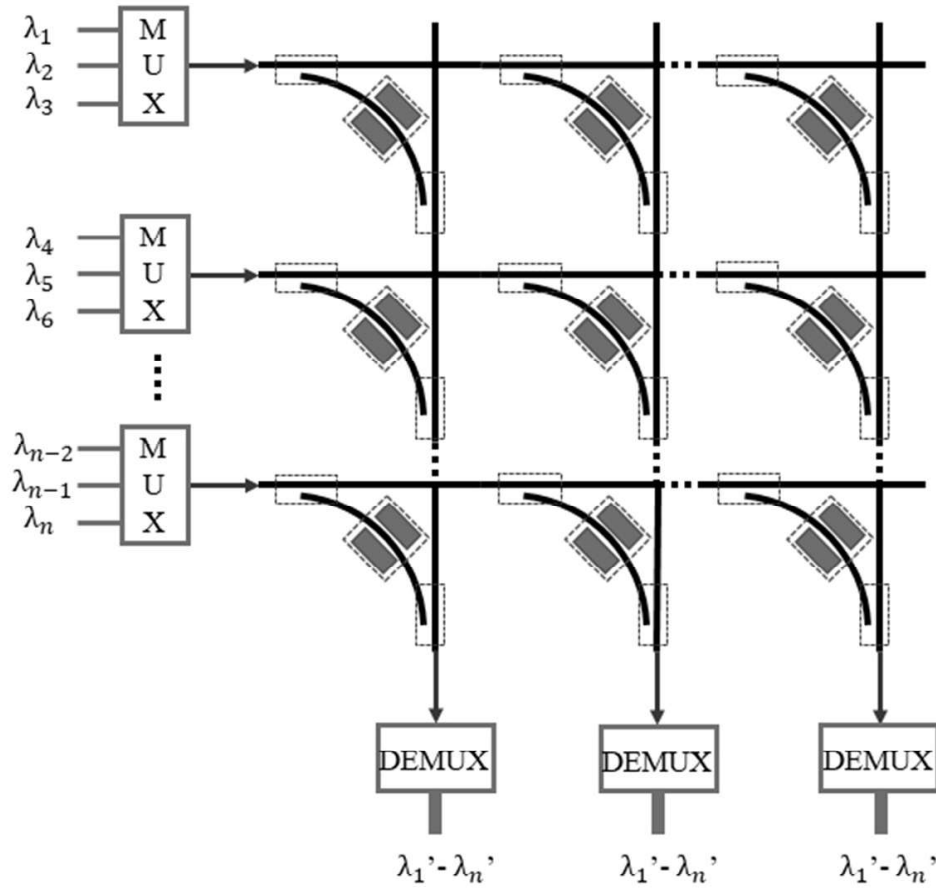


Fig. 7

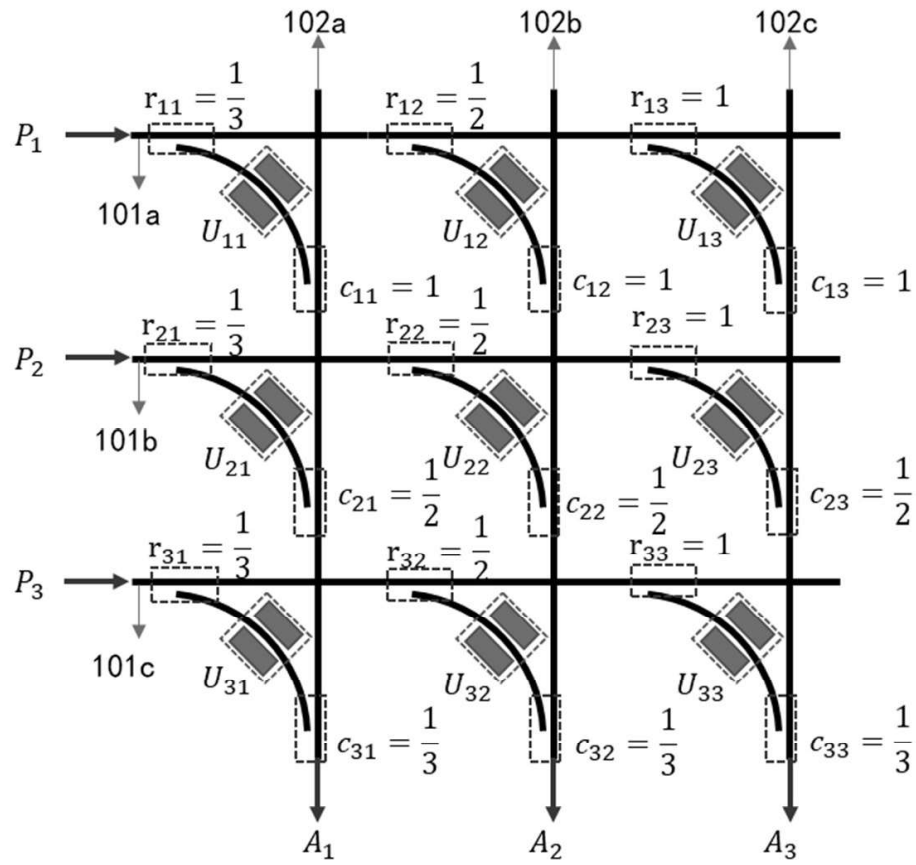


Fig. 8

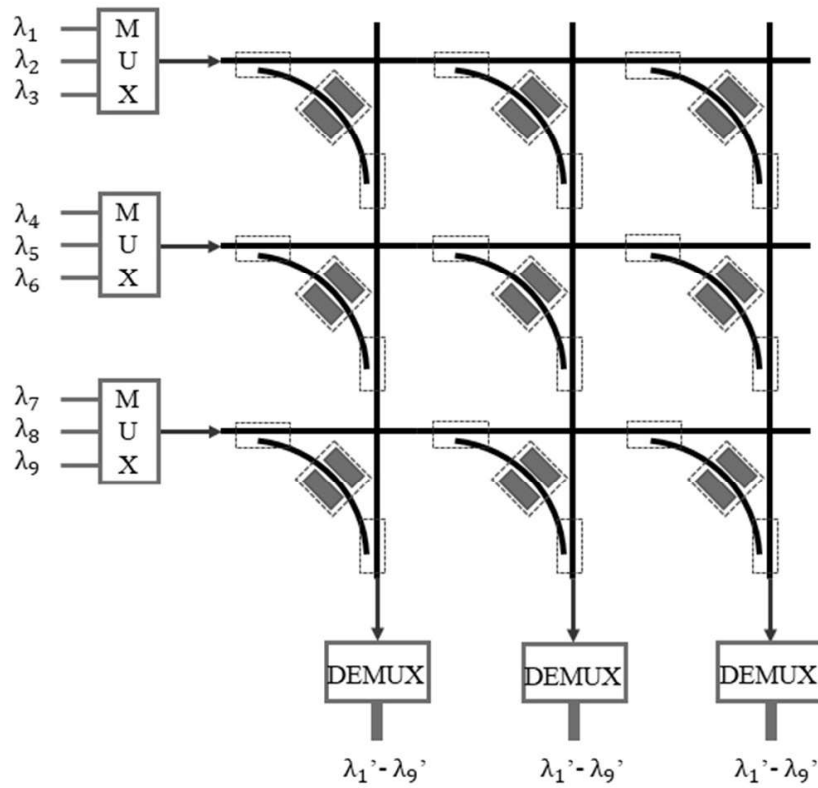


Fig. 9

Providing an optoelectronic hybrid computing unit, wherein the optoelectronic hybrid computing unit comprises a photonic computing unit and an optoelectronic conversion device that are interconnected; the photonic computing unit generates an optical output signal carrying encoded information; the optoelectronic conversion device converts the optical output signal into a current signal, and a magnitude of the current signal is proportional to a power of the optical output signal



Providing an electrical bus, wherein the electrical bus sums a corresponding number of current signals converted by a plurality of parallel-connected optoelectronic conversion devices, generating an electrical output signal, and the sum obtained by performing addition operation on the current signals is encoded into the electrical output signal

Fig.10

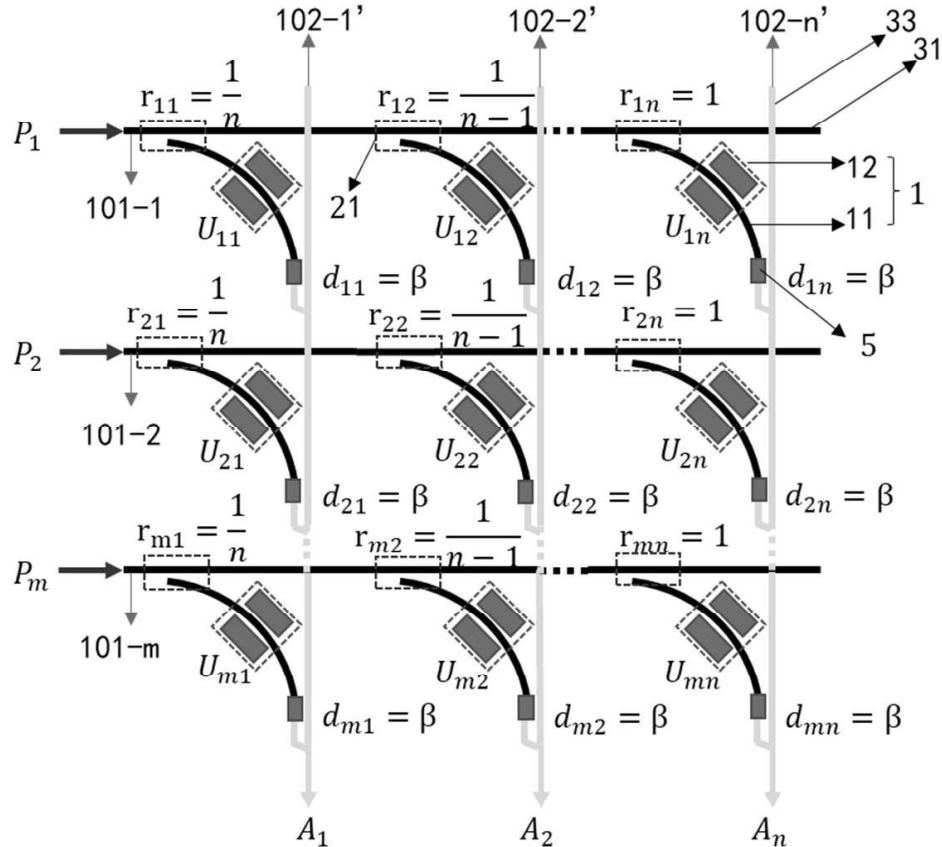


Fig.11

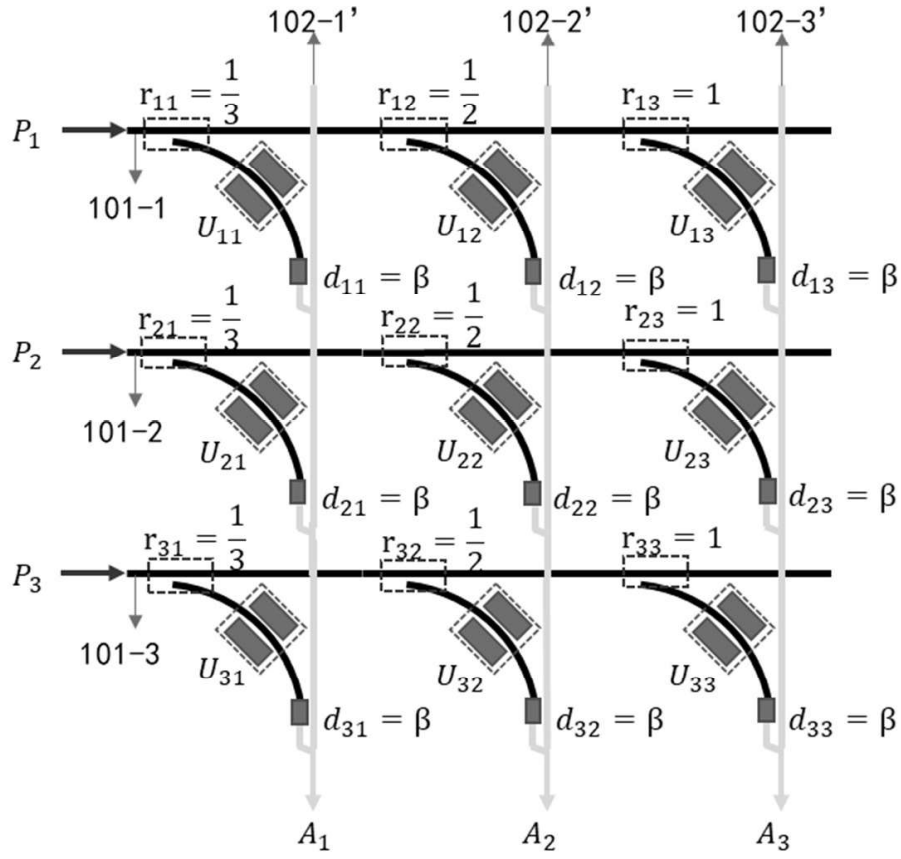


Fig.12

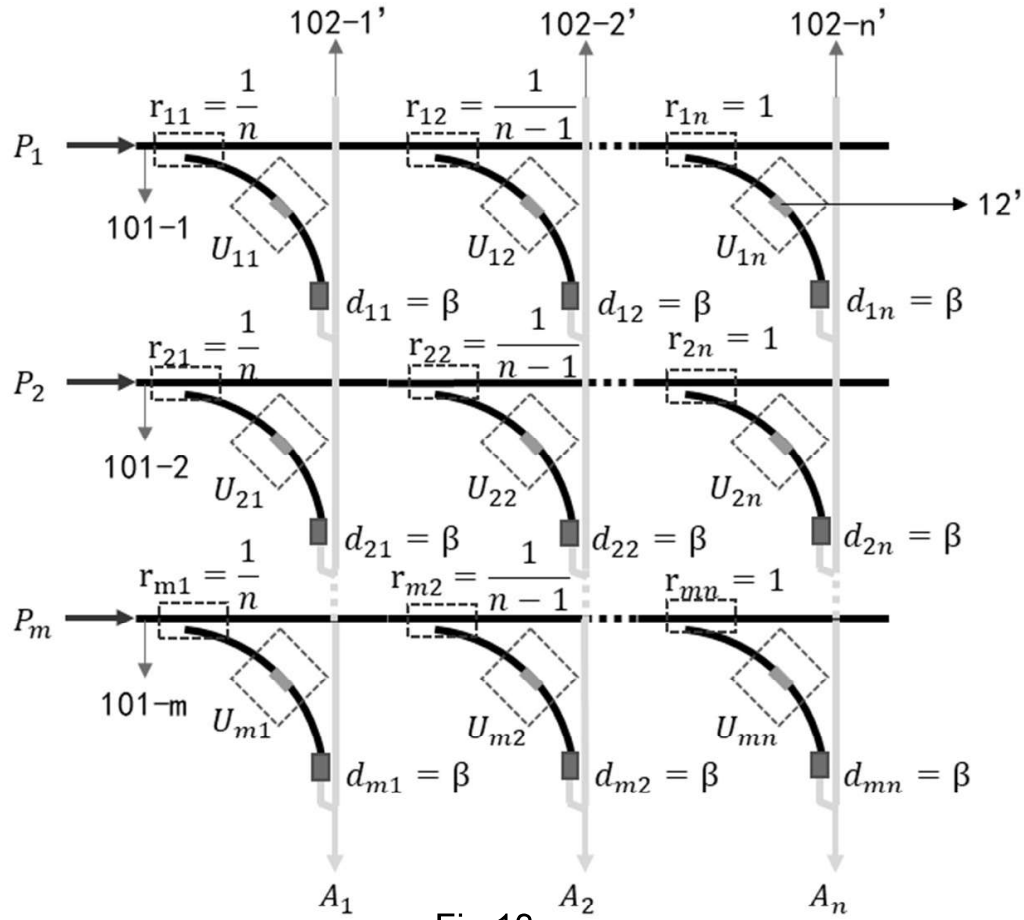


Fig.13

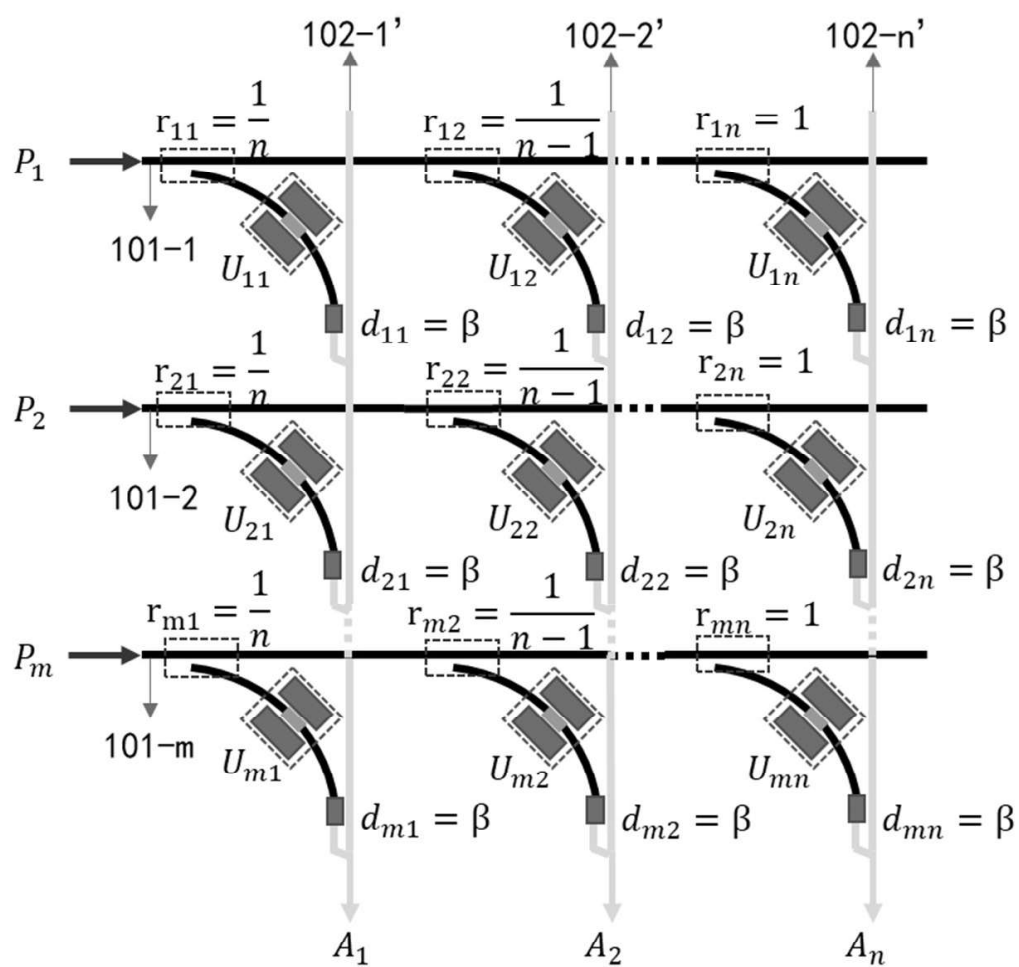


Fig.14