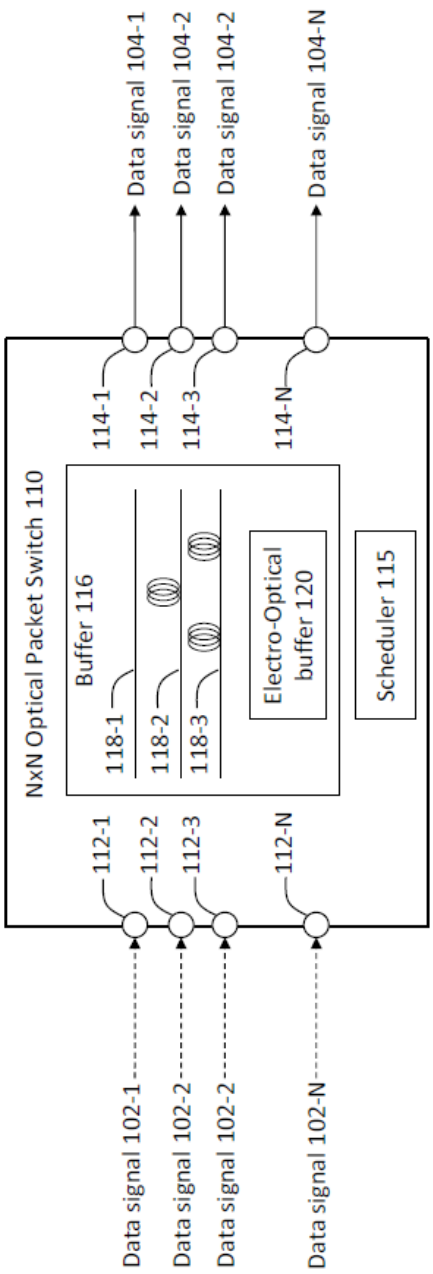



FIG. 1 (Known Art)

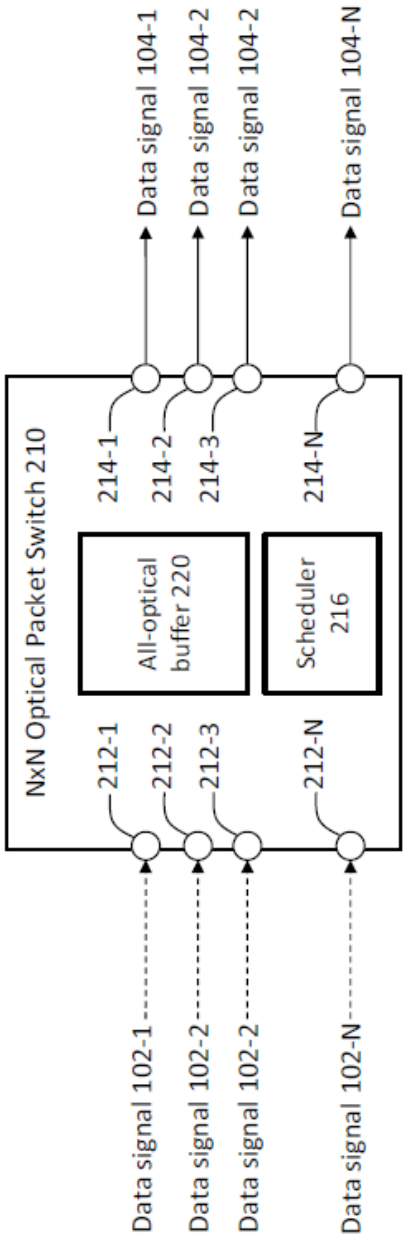

NxN Optical Packet Switch 210
All-optical buffer 220
Scheduler 216
212-1
212-2
212-3
212-N
214-1
214-2
214-3
214-N
Data signal 102-1
Data signal 102-2
Data signal 102-2
Data signal 102-N
Data signal 104-1
Data signal 104-2
Data signal 104-2
Data signal 104-N

FIG. 2A

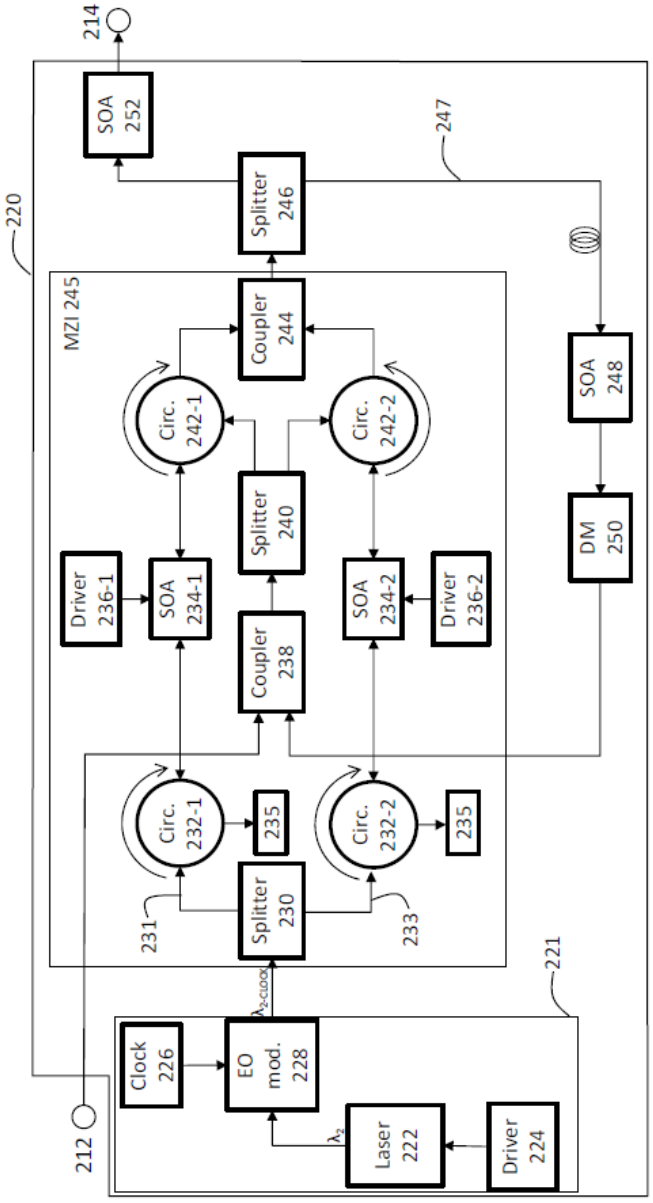

214
SOA 252
220
247
Splitter 246
MZI 245
Coupler 244
Circ. 242-1
Circ. 242-2
SOA 248
Splitter 240
Driver 236-1
SOA 234-1
SOA 234-2
Driver 236-2
DM 250
Coupler 238
Circ. 232-1
235
Circ. 232-2
235
231
Splitter 230
233
221
Clock 226
EO mod. 228
212
Laser 222
Driver 224

FIG. 2B

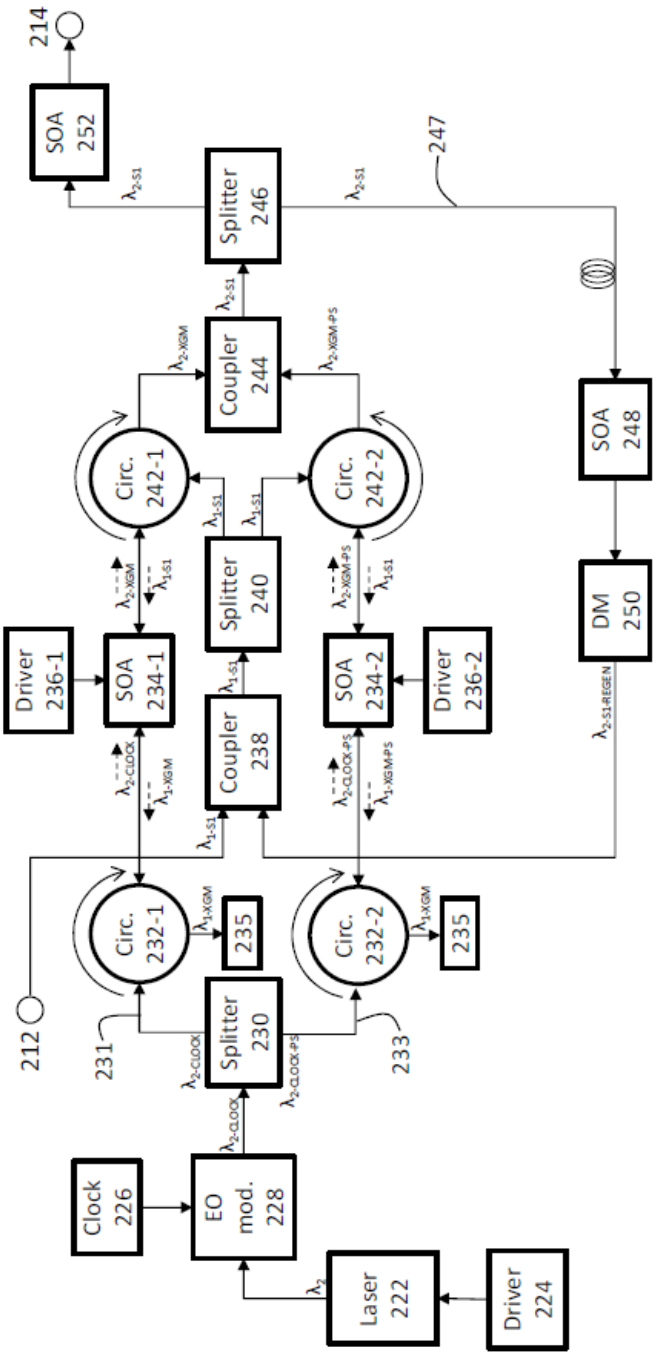

214
SOA 252
Splitter 246
247
Coupler 244
Circ. 242-1
Circ. 242-2
SOA 248
DM 250
Splitter 240
Driver 236-1
SOA 234-1
SOA 234-2
Driver 236-2
Coupler 238
Circ. 232-1
Circ. 232-2
235
235
212
231
233
Splitter 230
Clock 226
EO mod. 228
Laser 222
Driver 224

FIG. 2C

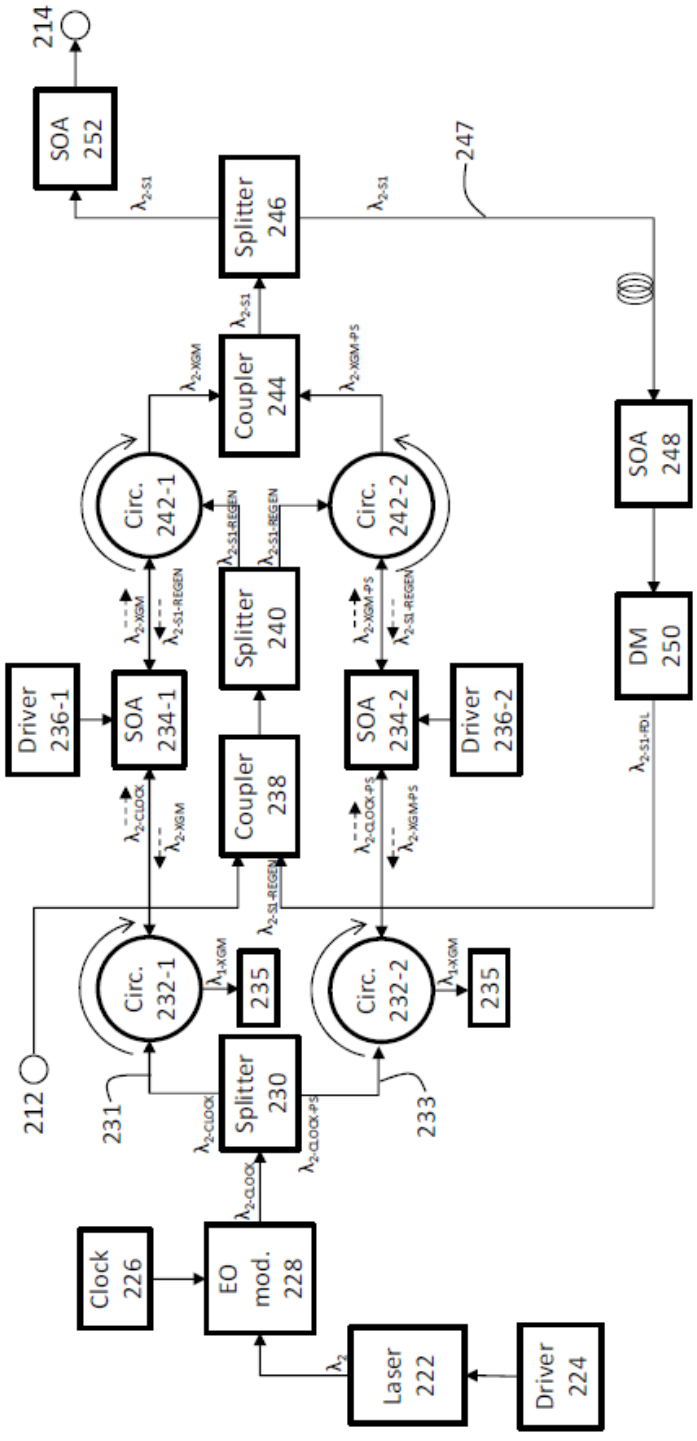

214
SOA 252
Splitter 246
247
Coupler 244
SOA 248
Circ. 242-1
Circ. 242-2
Splitter 240
DM 250
Driver 236-1
SOA 234-1
SOA 234-2
Driver 236-2
Coupler 238
212
231
233
Circ. 232-1
Circ. 232-2
235
235
Splitter 230
Clock 226
EO mod. 228
Laser 222
Driver 224

FIG. 2D

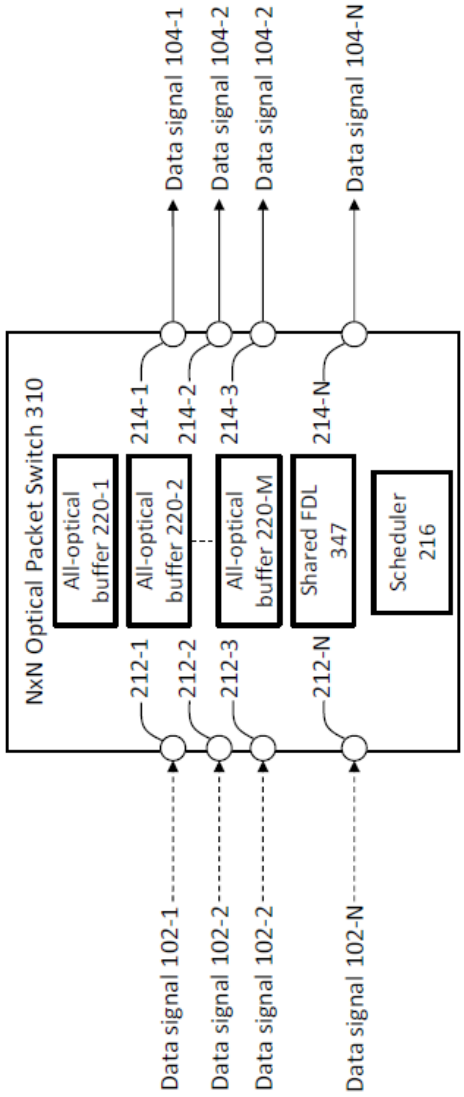

NxN Optical Packet Switch 310
All-optical buffer 220-1
All-optical buffer 220-2
All-optical buffer 220-M
Shared FDL 347
Scheduler 216
212-1
212-2
212-3
212-N
214-1
214-2
214-3
214-N
Data signal 102-1
Data signal 102-2
Data signal 102-2
Data signal 102-N
Data signal 104-1
Data signal 104-2
Data signal 104-2
Data signal 104-N

FIG. 3A

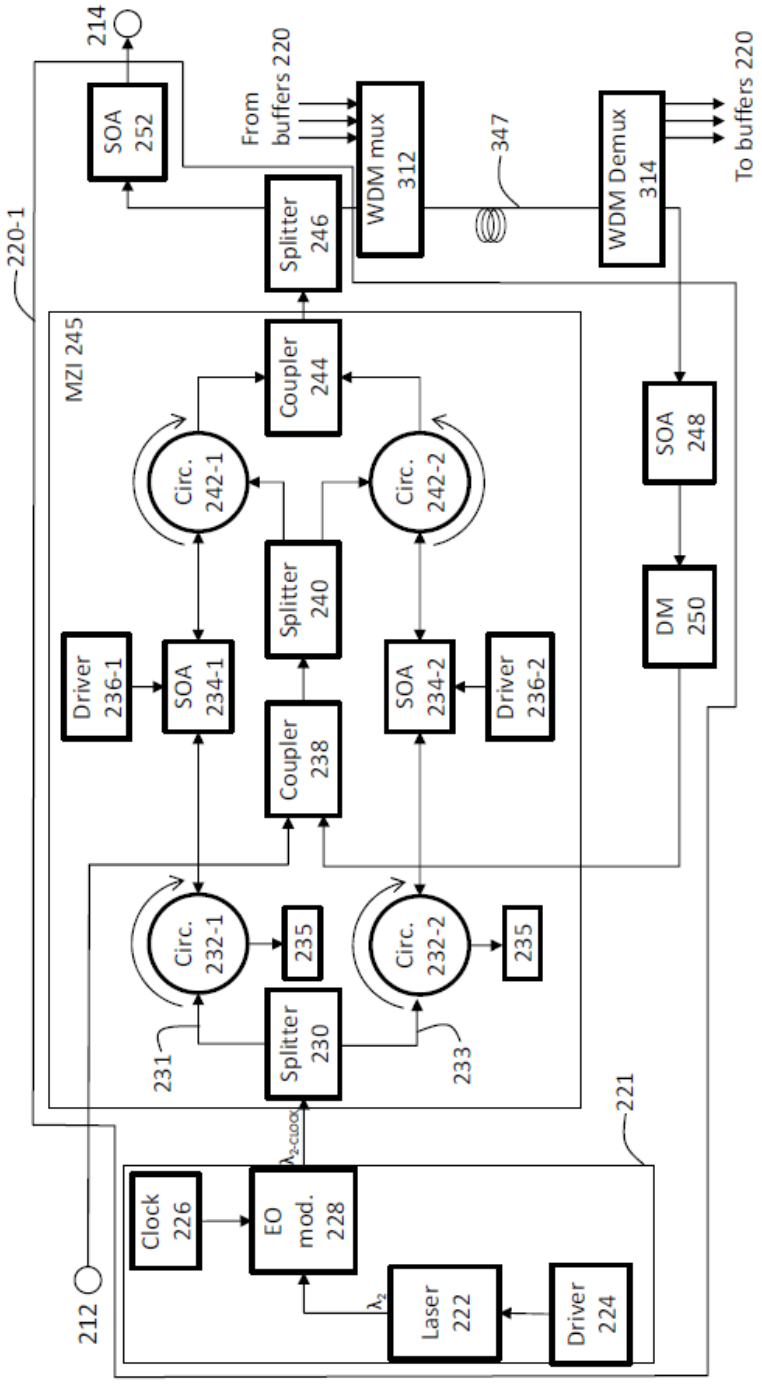

214
SOA 252
From buffers 220
WDM mux 312
347
WDM Demux 314
To buffers 220
220-1
Splitter 246
MZI 245
Coupler 244
Circ. 242-1
Circ. 242-2
SOA 248
Splitter 240
DM 250
Driver 236-1
SOA 234-1
SOA 234-2
Driver 236-2
Coupler 238
Circ. 232-1
235
Circ. 232-2
235
231
Splitter 230
233
221
Clock 226
EO mod. 228
Laser 222
Driver 224
212

FIG. 3B

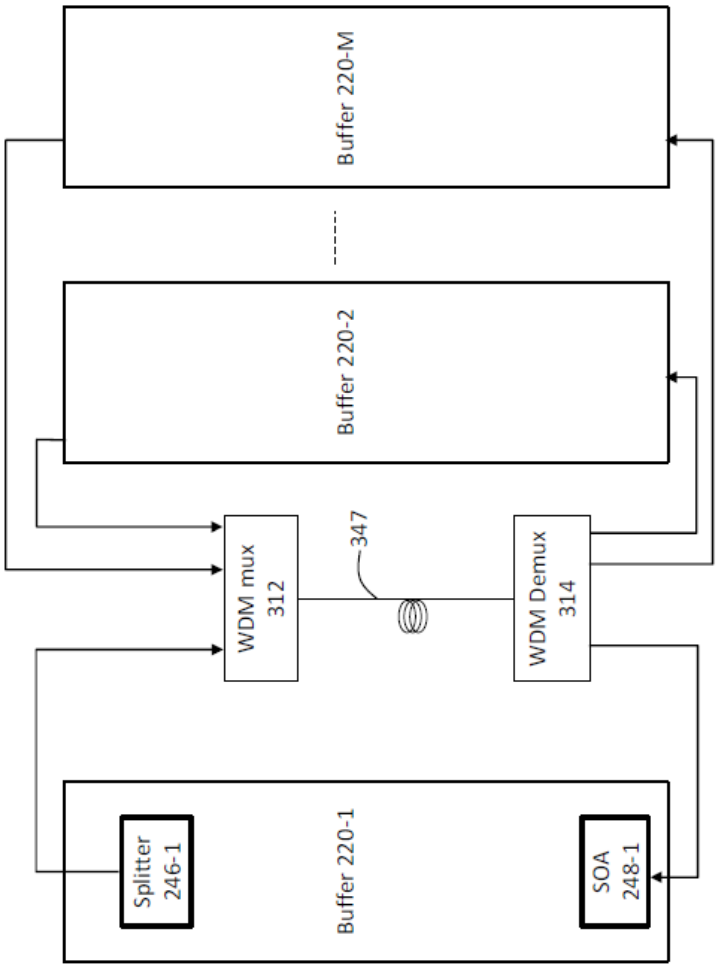

Buffer 220-M
Buffer 220-2
347
WDM mux
312
WDM Demux
314
Splitter
246-1
Buffer 220-1
SOA
248-1

FIG. 3C