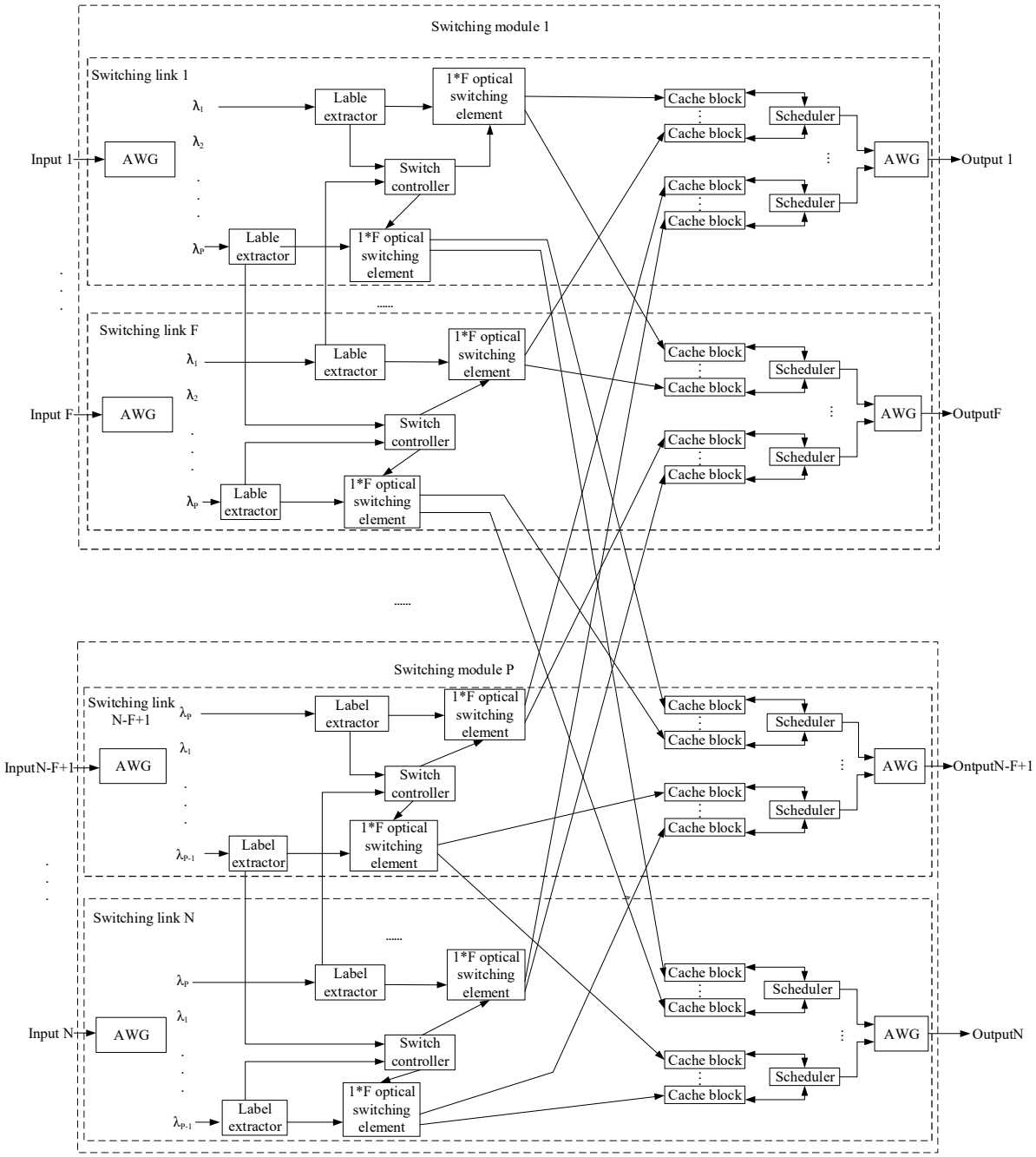
Switching module 1
Switching link 1
Input 1
AWG
λ1
λ2
λP
Lable extractor
Switch controller
1*F optical switching element
Cache block
Scheduler
AWG
Output 1
Switching link F
Input F
OutputF
Switching module P
Switching link N-F+1
InputN-F+1
OntputN-F+1
Label extractor
λP-1
Switching link N
Input N
OutputN

FIG. 1

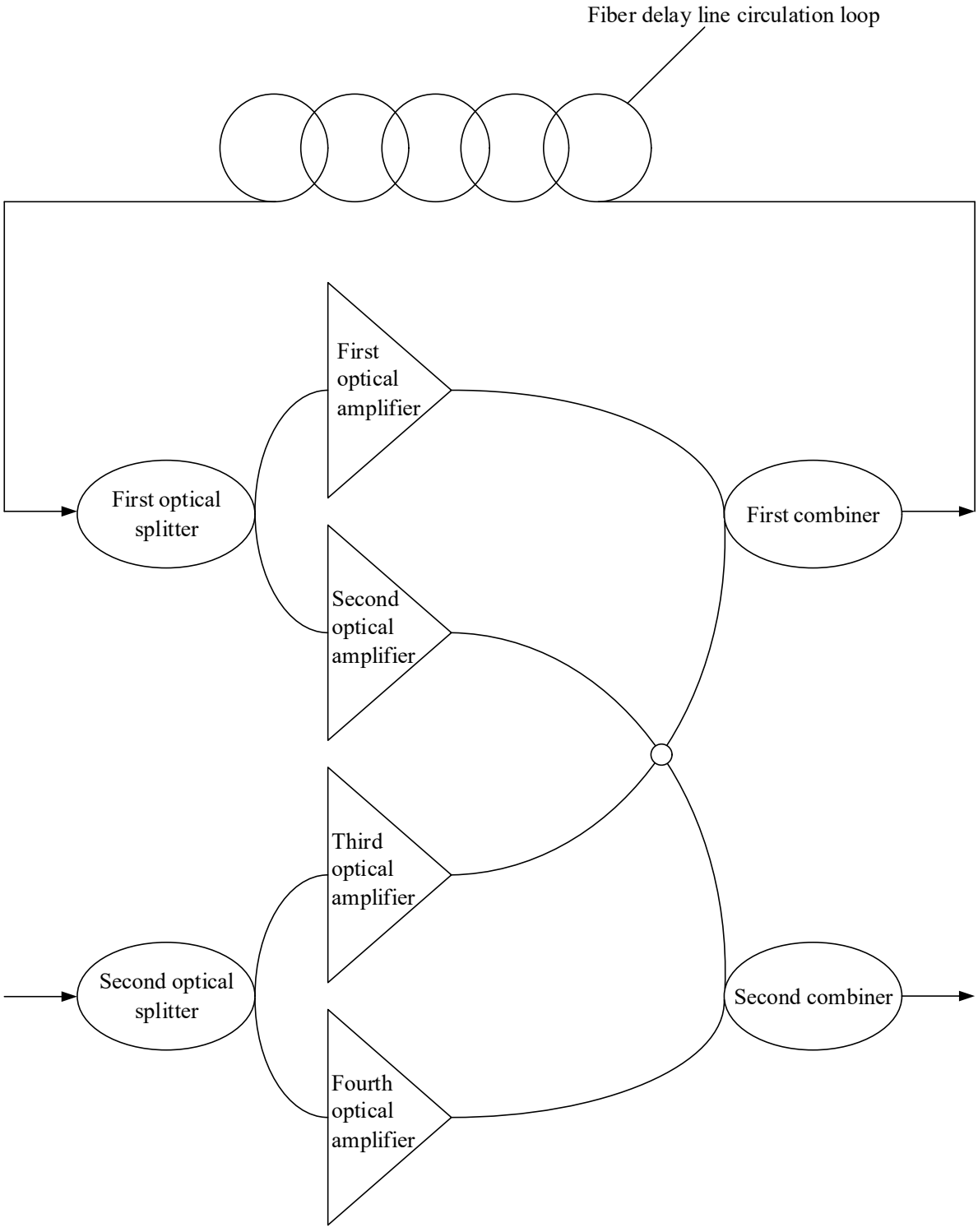
Fiber delay line circulation loop
First optical amplifier
First optical splitter
First combiner
Second optical amplifier
Third optical amplifier
Second optical splitter
Second combiner
Fourth optical amplifier

FIG. 2

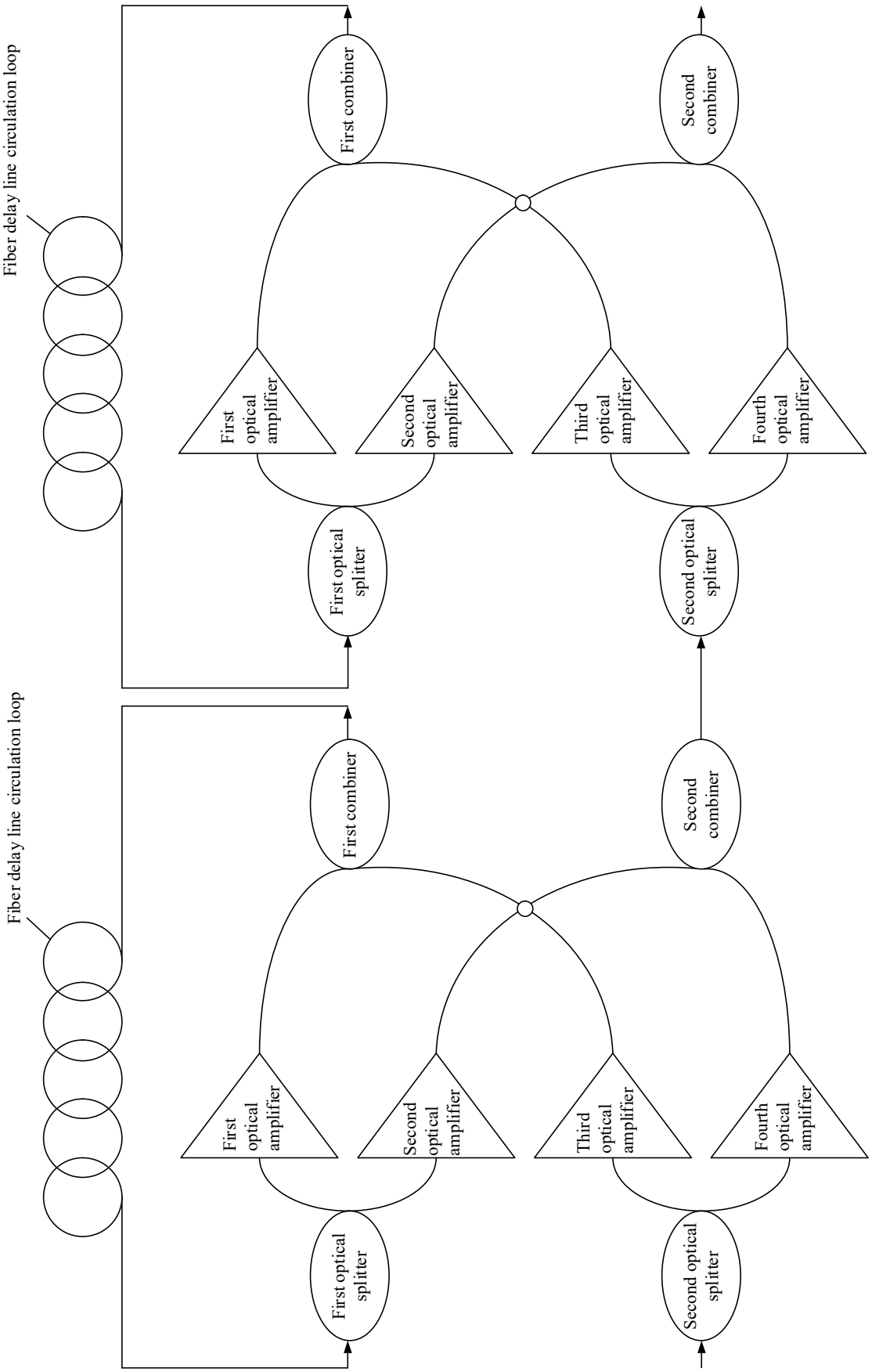
Fiber delay line circulation loop
First optical splitter
First optical amplifier
Second optical amplifier
First combiner
Second optical splitter
Third optical amplifier
Fourth optical amplifier
Second combiner
Fiber delay line circulation loop
First optical splitter
First optical amplifier
Second optical amplifier
First combiner
Second optical splitter
Third optical amplifier
Fourth optical amplifier
Second combiner

FIG. 3