

WAVELENGTH CONFIGURATION METHOD AND APPARATUS FOR MULTI-WAVELENGTH PASSIVE OPTICAL NETWORK, AND MULTI-WAVELENGTH PASSIVE OPTICAL NETWORK SYSTEM

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ABSTRACT

The present application provides a wavelength configuration method for a multi-wavelength passive optical network, which includes: scanning, by an ONU, a downstream receiving wavelength, and receiving, during the process of scanning the downstream receiving wavelength, downstream wavelength information of each downstream wavelength channel that is broadcast by an OLT separately through each downstream wavelength channel of a multi-wavelength PON system; establishing, by the ONU, a downstream receiving wavelength mapping table according to the downstream wavelength information, where an entry of the downstream receiving wavelength mapping table includes downstream receiving wavelength information, drive current information of a downstream optical receiver and receiving optical physical parameter information of the ONU; selecting, by the ONU, one downstream wavelength from the downstream wavelength information broadcast by the OLT, and setting, according to the drive current information of the downstream optical receiver recorded in a related entry of the downstream receiving wavelength mapping table, an operating wavelength of the downstream optical receiver to the selected downstream wavelength. The present application further provides a multi-wavelength passive optical network system and a wavelength configuration apparatus for the multi-wavelength passive optical network system.

FIGURE 3