

ABSTRACT

Disclosed in embodiments of this disclosure are a power headroom (HP) reporting method based on multi-panel (MP) transmission, and an apparatus, which can be applied to the technical field of communications. The method executed by an MP terminal device comprises: when a terminal device actually transmits a PUSCH on a first transmission time slot corresponding to a PUSCH carrying MAC CE power headroom report (PHR) reporting, or on a time slot satisfying a timeline requirement, the corresponding PUSCH is configured to perform uplink simultaneous transmission via multi-panel (STxMP) of multiple transmission/reception points (TRPs), and the actual transmission of the PUSCH is a transmission from a single panel to a single TRP, calculating and reporting a PHR on the basis of a maximum power configuration of the terminal device and at least according to one actual PH. Therefore, a network device can determine the PH of each panel according to the PHR reported by the multi-panel terminal device, so that accurate resource scheduling is carried out on each panel, and the reliability of uplink transmissions is guaranteed.

FIG. 2