

ABSTRACT

The present disclosure provides token management and information forwarding methods and apparatuses, an electronic device, and a storage medium, and relates to the field of network communication. According to the present disclosure, a token scheduling module is used to analyze token data corresponding to respective autonomous token objects, to obtain a comprehensive token supply and demand state; and a reward token is allocated to at least one autonomous token object according to the comprehensive token supply and demand state and the token data corresponding to the respective autonomous token objects. Herein, at least part of the autonomous token objects is used to produce and consume tokens. The token scheduling module uniformly schedules the reward tokens for the respective autonomous token objects, which can overcome the defect of performance degradation caused by accessing a public token bucket in a cross-core way by the autonomous token objects, when they have token requirements in a multi-core scenario, thereby improving the token allocation efficiency. In addition, the autonomous token object in the present disclosure may produce tokens, and is provided with a token bucket for storing the tokens, so that the problem of CPU cache conflict caused by multi-core access to the public token bucket can be effectively solved.

FIG. 1