

ABSTRACT

Disclosed in the present application are a data processing method and apparatus based on a blockchain, and a device and a readable storage medium. The method comprises: creating a first world state corresponding to an initial block; updating the first world state on the basis of a transaction in the initial block, so as to obtain an initial updated state, and performing clean state tree construction processing for the initial updated state on the basis of a world state chain, so as to obtain an updated first world state that includes the current clean world state tree; writing into the initial block a first world state root which corresponds to the current clean world state tree, so as to obtain a block to be chained; and if a consensus on the block to be chained is passed, writing into a blockchain the block to be chained, submitting, by means of the world state chain and level by level, the updated first world state to the latest chained world state, and determining the updated first world state as a new consensus root world state. By using the present application, world states of a plurality of blocks can be maintained, thereby ensuring the consistency of state data.