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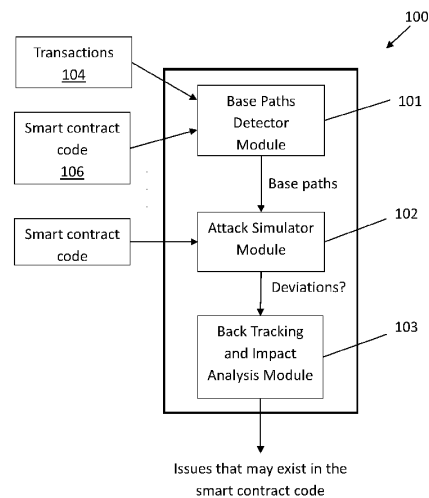


Fig. 1

(57) Abstract: The present invention relates to a system and a method which receives as an input transactions and a smart contract code, and provides as an output an analysis of possible issues such as possible security attacks or bugs found in the smart contract code that may exist in the smart contract code that was input to the blockchain-based system. More specifically, the present invention relates to the way data is stored in decentralized systems such as blockchain-based systems, to identify base paths and then alters the base paths looking for an attack, in a guided way.

[Continued on next page]

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