

PROPERTY MANAGEMENT SYSTEM UTILIZING A BLOCKCHAIN NETWORK

ABSTRACT

5 Disclosed herein are methods, systems, and apparatus, including computer
programs encoded on computer storage media, for controlling access to a property based
on smart contract execution. One of the methods includes receiving credential data for a
first entity requesting access to a property; in response to receiving the credential data,
requesting execution of a smart contract associated with the property by a blockchain
10 network, wherein the smart contract includes instructions to check a current status of a
relationship between the first entity and a second entity associated with the property
based on the credential data; receiving an execution result of the smart contract from the
blockchain network; determining that the first entity is authorized to access the property
based at least in part on the execution result; and in response to determining that the first
15 entity authorized to access the property, enabling the first entity to access to the property.

FIG. 3