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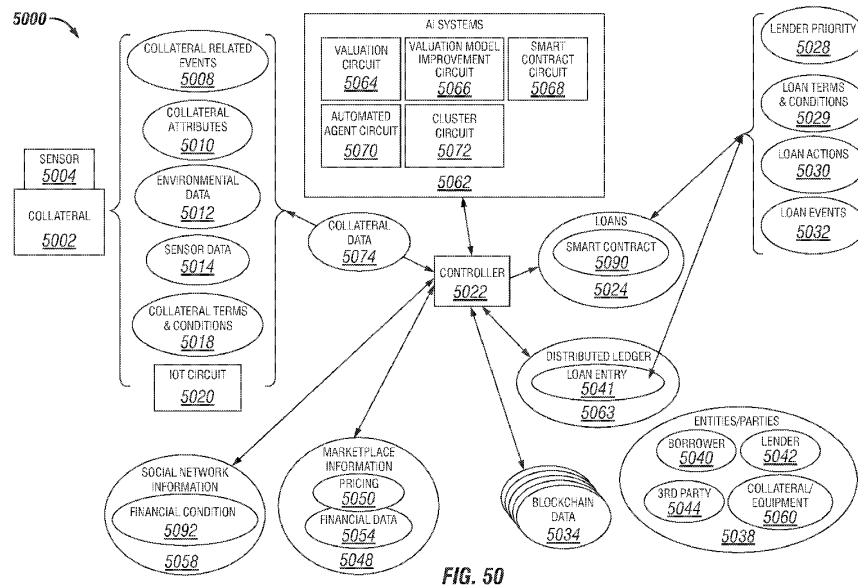


FIG. 50

(57) Abstract: Systems, methods, and apparatus for automated execution of loan based activities are disclosed herein. An example system may include a blockchain service circuit to interpret access control features corresponding to parties associated with a loan; a data collection circuit to interpret entity information; a smart contract circuit to specify loan terms and conditions; and a loan management circuit. The loan management circuit may interpret loan related events and implement loan related activities in response to the entity information, the plurality of access control features, and the loan terms and conditions. Each of the blockchain service circuit, the data collection circuit, the smart contract circuit, and the loan management circuit further include a corresponding application programming interface (API) component to facilitate communication among the circuits of the system.

[Continued on next page]

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