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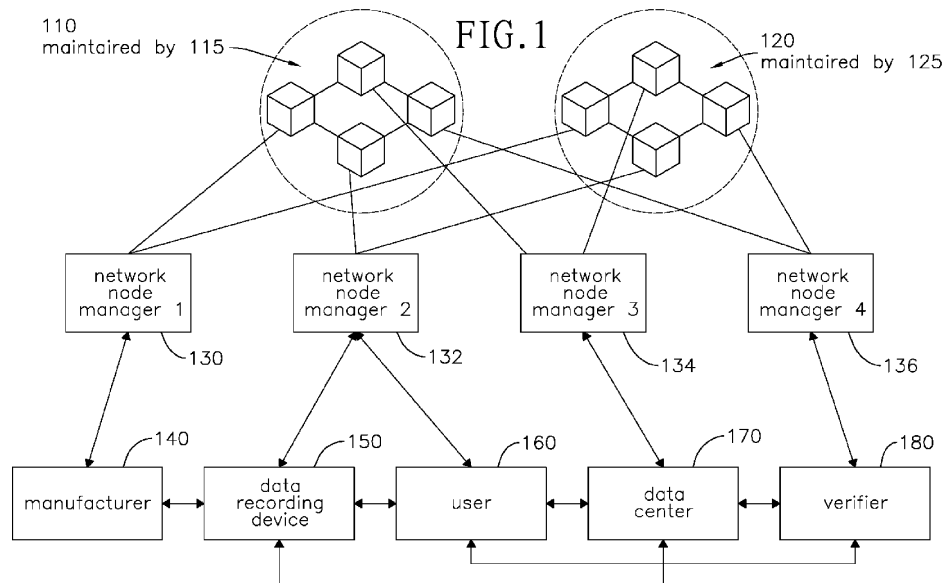
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(54) Title: DISTRIBUTED LEDGER BASED CRYPTOGRAPHIC SYSTEMS AND METHODS FOR IMPROVING DATA INTEGRITY



(57) Abstract: The present disclosure describes system and method for using distributed ledgers to improve data integrity. The system may include a distributed integrity ledger, a distributed identity ledger, multiple network node managers to manage transactions in both ledgers, a data recording device, a manufacture to make the device, a user to use the device, a data center to store recorded data pieces, and a verifier who needs to verify authenticity of the recorded data. The distributed integrity ledger is used to store commitments generated by the data recording device to verify authenticity of recorded data pieces. In addition, because the commitment is neither traceable nor linkable to personal information, possibility of privacy violation is minimized even if the commitments are disclosed to the public.

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