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(54) **Title:** METHOD AND SYSTEM FOR TRADING ASSETS AND THEIR CARBON FOOTPRINT STATUS

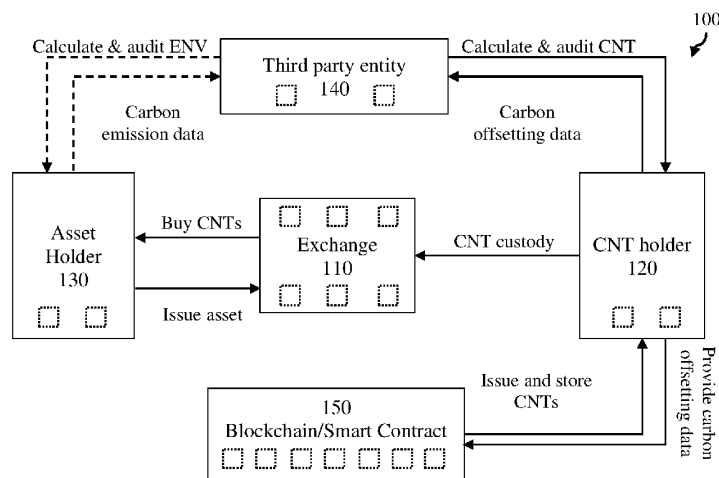


FIG. 1A

(57) **Abstract:** The present application relates to systems and methods for trading assets taking into account carbon footprint of assets. The system is configured to allow a party to obtain carbon emission certificates and carbon emission redemption certificates from an offsetting activity in a country, and uses these to create a non fungible digital twin representing the offsetting activity which comprises a time series of emission reduction smart contracts on a blockchain which are used to generate carbon neutrality tokens based on the amount of carbon emission reductions which can then be traded in any country. Similarly an asset holder can create a Non-Fungible Digital Twin (NFDt) representing the offsetting activity which comprises a time series of asset smart contracts on a blockchain which capture the carbon footprint of the asset over time. A trading exchange is configured to allow listing of assets and trading of carbon neutrality tokens, and includes a ledger to track the carbon neutrality status of listing entities and investor portfolios.

[Continued on next page]

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