

What is claimed is:

1. A method for operating transaction-enabling system comprising a controller, the method comprising the steps of:
 - accessing, using the controller, a distributed ledger comprising an instruction set,
wherein the instruction set comprises a field programmable gate array (FPGA) instruction set;
 - tokenizing, using the controller the instruction set;
 - interpreting, using the controller an instruction set access request; ~~and~~
 - providing, using the controller a provable access to the instruction set in response to the instruction set access request; and
 - interpreting an execution operation of the FPGA instruction set.
2. The method of claim 1, wherein the instruction set comprises an instruction set for a coating process and the method further comprises the step of providing commands to a production tool of the coating process in response to the instruction set access request.
3. The method of claim 1, wherein the instruction set comprises an instruction set for a 3D printing process and the further comprises the step of providing commands to a production tool of the 3D printing process in response to the instruction set access request.
4. The method of claim 2 or claim 3, further comprising recording a transaction on the distributed ledger in response to the providing commands to the production tool.
5. The method of claim 1, wherein the instruction set comprises an instruction set for a semiconductor fabrication process and the method further comprises the step of providing commands to a production tool of the semiconductor fabrication process in response to the instruction set access request.
6. The method of claim 1, ~~wherein the instruction set comprises field programmable gate array (FPGA) instruction set and the method further comprises the steps of~~
~~interpreting an execution operation of the FPGA instruction set, and~~ further comprising
recording a transaction on the distributed ledger in response to the execution operation.
7. The method of claim 1, wherein the instruction set comprises an instruction set for a food preparation process and the method further comprises the step of providing commands to a production tool of the food preparation process in response to the instruction set access request.

8. The method of claim 1, wherein the instruction set comprises an instruction set for a polymer production process and the method further comprises the step of providing commands to a production tool of the polymer production process in response to the instruction set access request.
9. The method of claim 1, wherein the instruction set comprises an instruction set for a chemical synthesis process and the method further comprises the step of providing commands to a production tool of the chemical synthesis process in response to the instruction set access request.
10. The method of claim 1, wherein the instruction set comprises an instruction set for a biological production process and the method further comprises the step of providing commands to a production tool of the biological production process in response to the instruction set access request.
11. The method of claim 1, wherein the instruction set comprises an instruction set for a crystal fabrication process and the method further comprises the step of providing commands to a production tool of the crystal fabrication process in response to the instruction set access request.
12. The method of claim 1, further comprising the steps of:
interpreting an execution operation of the instruction set, and
recording a transaction on the distributed ledger in response to the execution operation.
13. The method according to any one of claims 1 to 12, wherein the distributed ledger is stored separately from the controller.
14. The method according to claim 13, wherein the distributed ledger is stored in a separate data store of instructions.
15. The method of any one of claims 1 to 14, further comprising the steps of:
Providing a user with a token demonstrating access, and
recording a transaction on the distributed indicating the access.
16. The method of any one of claims 1 to 15, wherein the distributed ledger is a blockchain.