

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

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Date of mailing
(day/month/year)

27 FEB 2020

Applicant's or agent's file reference
P82284PC00

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/IB 19/60321

International filing date (day/month/year)

29 November 2019 (29.11.2019)

Priority date (day/month/year)

29 November 2018 (29.11.2018)

International Patent Classification (IPC) or both national classification and IPC

IPC - G06F 11/30 (2020.01)

CPC - G06F 21/86, G06F 21/10, G06F 21/72, G06F 2221/2107, G06F 2221/2143, G06F 21/10, G11B
20/00086, G11B 20/0021, G06F 2221/2107, H04L 9/08, H04L 9/08, H04L 63/0428

Applicant

CEEVO BLOCKCHAIN VENTURE LTD.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

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Date of completion of this opinion

19 February 2020

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Box No. 1 Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
- the international application in the language in which it was filed.
 - a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(b)).
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
- a. forming part of the international application as filed:
 - in the form of an Annex C/ST.25 text file.
 - on paper or in the form of an image file.
 - b. furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. furnished subsequent to the international filing date for the purposes of international search only:
 - in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
 - on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).
4. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3, 5, 7-8, 10 and 12	YES
	Claims	1-2, 4, 6, 9 and 11	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-12	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-2, 4, 6, 9 and 11 lack novelty under PCT Article 33(2) as being anticipated by US 2018/0300489 A1 (Amazon Technologies, Inc.).

Regarding claim 1, Amazon discloses a cryptocurrency token storage product comprising a smart card having: a controller (para [0033]); an embedded screen with sufficient size to display the full and/or a truncated signature payment hash and/or any other information (para [0059]); and a fingerprint scanner connected to the controller, for user authentication (para [0041]).

Regarding claim 2, Amazon discloses the cryptocurrency token storage product of claim 1, wherein the controller comprises an HSM chip module and a processing chip (para [0015], [0029]).

Regarding claim 4, Amazon discloses the cryptocurrency token storage product of claim 1, wherein the smart card comprises an LED status indicator (para [0059]).

Regarding claim 6, Amazon discloses the cryptocurrency token storage product of claim 1, wherein the smart card is biometrically enabled for user authentication, to ensure that a user is uniquely identified for deposits and/or withdrawals of cryptocurrency tokens, ensuring that the deposits and/or withdrawals are done by the correct person (para [0018]).

Regarding claim 9, Amazon discloses the cryptocurrency token storage product of claim 1, wherein the cryptocurrency token storage product works in conjunction with a bespoke software application (Fig. 2A; para [0032]).

Regarding claim 11, Amazon discloses the cryptocurrency token storage product of claim 9, wherein the controller includes an authentication module to manage the authentication procedure, the authentication module prompting the user to authenticate him/herself directly on the smart card itself, using the fingerprint scanner (para [0018], [0041]).

Claims 3, 5, 7-8, 10 and 12 lack an inventive step under PCT Article 33(3) as being obvious over Amazon in view of US 2007/0042767 A1 (Stepanian).

Regarding claim 3, Amazon fails to explicitly teach the cryptocurrency token storage product of claim 1, wherein the smart card further comprises an RFID antenna and a USB connector to enable the smart card to communicate and/or connect with a device. However, in an analogous art, Stepanian teaches wherein the smart card further comprises an RFID antenna and a USB connector to enable the smart card to communicate and/or connect with a device (Abstract, para [0029], [0028], [0145], [0167]). It would have been obvious to one of ordinary skill in the art at the time of the invention to employ an antenna and a USB interface with a smart card to enable communication and authentication functionality.

Regarding claim 5, Amazon fails to explicitly teach the cryptocurrency token storage product of claim 1, wherein the smart card comprises a battery. However, in an analogous art, Stepanian teaches the cryptocurrency token storage product of claim 1, wherein the smart card comprises a battery (para [0029], [0224]). It would have been obvious to one of ordinary skill in the art at the time of the invention to employ a battery with a smart card to enable active device functionality.

Regarding claim 7, Stepanian further teaches the cryptocurrency token storage product of claim 3, wherein a consumer package comprises two of the smart cards, one of which is fitted with a removable sticker, and a connector cable to connect to the USB connector (Abstract, para [0006], [0029], [0028], [0145], [0167]).

Regarding claim 8, Amazon discloses the cryptocurrency token storage product of claim 7, wherein the consumer package comprises a secure chip reader to read the smart card (para [0015], [0029]-[0030], [0048]).

--See Supplemental Box--

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V, 2. Citations and Explanations:

Regarding claim 10, Amazon fails to explicitly teach the cryptocurrency token storage product of claim 9, wherein the controller includes an enrollment module to manage an enrollment procedure, wherein the software application prompts the user to register a plurality of fingerprints on multiple occasions, using the fingerprint scanner on the smart card, until sufficient templates have been established. However, in an analogous art, Stepanian teaches the cryptocurrency token storage product of claim 9, wherein the software application prompts the user to register a plurality of fingerprints on multiple occasions, using the fingerprint scanner on the smart card, until sufficient templates have been established (para [0126], [0246]). It would have been obvious to one of ordinary skill in the art at the time of the invention to employ fingerprint reading/registration with a smart card to enable device functionality and authentication.

Regarding claim 12, Amazon fails to explicitly teach the cryptocurrency token storage product of claim 9, wherein the controller includes a transaction module to manage transactions, so that proximate the conclusion of a transaction, a payment hash is generated and displayed on the software application and the transaction module generates and displays the payment hash and/or relevant information on the screen of the smart card itself. However, in an analogous art, Stepanian teaches the cryptocurrency token storage product of claim 9, wherein the controller includes a transaction module to manage transactions, so that proximate the conclusion of a transaction, a payment hash is generated and displayed on the software application and the transaction module generates and displays the payment hash and/or relevant information on the screen of the smart card itself (para [0022]; claim 25). It would have been obvious to one of ordinary skill in the art at the time of the invention to employ authentication and payment information display for transaction with a smart card to enable purchases and financial authentication.

Claims 1-12 have industrial applicability as defined by PCT Article 33(4), because the subject matter can be made or used in industry.