

WHAT IS CLAIMED IS:

1. A computer-implemented method, comprising:
receiving, with at least one processor, account identifier data associated with at least one account identifier;
converting, with the at least one processor, the account identifier data into at least one non-textual visual element; and
communicating, with the at least one processor, the at least one non-textual visual element to at least one receiver.
2. The method of claim 1, wherein the at least one receiver renders the at least one non-textual visual element.
3. The method of claim 1, wherein the at least one non-textual visual element comprises an image.
4. The method of claim 1, wherein the at least one non-textual visual element comprises a video comprising at least one frame.
5. The method of claim 1, further comprising:
encrypting, with the at least one processor, the at least one non-textual visual element to form at least one encrypted non-textual visual element,
wherein communicating the at least one non-textual visual element comprises communicating the at least one encrypted non-textual visual element to the at least one receiver.
6. The method of claim 5, further comprising:
exchanging, with the at least one processor, at least one key with the at least one receiver.
7. The method of claim 6, wherein exchanging the at least one key comprises embedding the at least one key in the at least one non-textual visual element.

8. The method of claim 1, further comprising:
embedding, with the at least one processor, at least one watermark in
the at least one non-textual visual element.

9. The method of claim 8, wherein the at least one watermark
comprises a digital copy of a handwritten signature, and wherein embedding the at
least one watermark comprises modifying at least one pixel of the at least one non-
textual visual element based on the watermark.

10. The method of claim 9, wherein modifying the at least one pixel
comprises modifying a plurality of pixels so that the digital copy of the handwritten
signature is not perceptible by a human user.

11. A system, comprising:
a user device;
a hardware security module (HSM); and
a server, the server configured to:
receive, from the user device, a request for displaying an account
identifier;
retrieve, from the HSM, account identifier data associated with the
account identifier;
convert the account identifier data into at least one non-textual
visual element; and
communicate the at least one non-textual visual element to the
user device.

12. The system of claim 11, wherein the user device comprises a
browser and a renderer, and wherein the user device is configured to:
render, with the renderer, the at least one non-textual visual element;
and
display, with the browser, the at least one non-textual visual element as
rendered.

13. The system of claim 12, wherein:

the server is further configured to:

- exchange at least one key with the user device; and
- encrypt the at least one non-textual visual element based on the at least one key to form at least one encrypted non-textual visual element,
- wherein communicating the at least one non-textual visual element comprises communicating the at least one encrypted non-textual visual element to the user device; and

the user device is further configured to:

- decrypt the at least one encrypted non-textual visual element based on the at least one key to form at least one decrypted non-textual visual element,
- wherein displaying the at least one non-textual visual element comprises displaying the at least one decrypted non-textual visual element.

14. The system of claim 11, wherein:

the user device is configured to:

- receive a digital copy of a handwritten signature; and
- communicate the digital copy of the handwritten signature to the server; and

the server is further configured to:

- receive the digital copy of the handwritten signature from the user device; and
- embed the digital copy of the handwritten signature as a watermark in the at least one non-textual visual element,
- wherein communicating the at least one non-textual visual element comprises communicating the at least one non-textual visual element having the watermark embedded therein to the user device.

15. The system of claim 14, wherein embedding the digital copy of the handwritten signature as the watermark comprises modifying at least one pixel of the at least one non-textual visual element based on the digital copy of the handwritten signature, and

wherein modifying the at least one pixel comprises modifying a plurality of pixels so that the digital copy of the handwritten signature is not perceptible by a human user.

16. A computer program product, the computer program product comprising at least one non-transitory computer-readable medium including one or more instructions that, when executed by at least one processor, cause the at least one processor to:

receive account identifier data associated with at least one account identifier;

convert the account identifier data into at least one non-textual visual element; and

communicate the at least one non-textual visual element to at least one receiver.

17. The computer program product of claim 16, wherein the at least one non-textual visual element comprises at least one of an image, a video comprising at least one frame, or any combination thereof.

18. The computer program product of claim 16, wherein the instructions, when executed by the at least one processor, further cause the at least one processor to:

exchange at least one key with the at least one receiver; and

encrypt the at least one non-textual visual element based on the at least one key to form at least one encrypted non-textual visual element,

wherein communicating the at least one non-textual visual element comprises communicating the at least one encrypted non-textual visual element to the at least one receiver.

19. The computer program product of claim 16, wherein the instructions, when executed by the at least one processor, further cause the at least one processor to:

embed at least one watermark in the at least one non-textual visual element,

wherein embedding the at least one watermark comprises modifying at least one pixel of the at least one non-textual visual element based on the at least one watermark.

20. The computer program product of claim 19, wherein modifying the at least one pixel comprises modifying a plurality of pixels so that the at least one watermark is not perceptible by a human user.