[5] It is desirable, therefore, that there be provided a payment vehicle for use in-store, from which payment vehicle credentials cannot be derived for the purpose of making online purchases without the payment vehicle being present.

Summary

[6] According to a first aspect, the present disclosure provides a payment vehicle for use in initiating a transaction, the payment vehicle comprising:

a body; and

an image applied to the body, the image comprising encrypted data,

wherein the encrypted data is readable by an electronic reader to ascertain account details of a payment vehicle user, thereby to initiate the transaction, and wherein the image is visually comparable to the user, or to information produced by the user, to confirm the user's identity,

wherein the image comprises a first portion of information and a second portion of information, and

wherein the first portion of information is able to be decrypted by a first process and the second portion of information is able to be decrypted by a second process different from the first process.

[7] According to a second aspect, the present disclosure further provides a method of performing a transaction, comprising:

reading encrypted data from a surface of a payment vehicle, reading a first portion of data and a second portion of data;

decrypting the first portion of data by a first process and the second portion of data by a second process;

identifying a user account, based on the decrypted data, from which funds for the transaction can be debited; and

completing the transaction using the funds from the user account.

[8] According to an example, the present disclosure also provides a method of retrieving details, comprising:

reading encrypted data from a surface of a payment vehicle using a scanner associated with a computing system;

sending the encrypted data to a server system;

decrypting the data at the server system;

identifying a user account stored in a database associated with the server system, based on the decrypted data, the user account comprising user data; and
sending the user data to the computing system.

[9] According to a third aspect, the present disclosure still further provides a method for forming a payment vehicle, comprising:

capturing an image;

forming an encrypted image by encrypting data into the image, the data comprising at least one of a token, payment vehicle details and cardholder details; and

applying the encrypted image to a payment vehicle body,

wherein encrypting the data into the image comprises using different encryption algorithms to encrypt a first portion of the data and separately encrypt a second portion of the data.

Brief description of the drawings

[10] Some embodiments will now be described by way of non-limiting example only, with reference to the accompanying drawings in which:

Figures 1A and 1B show an image for application to a payment vehicle in raw form (Figure 1A) and with payment vehicle credentials encrypted into the image (Figure 1B);

Figures 2A and 2B show front and rear sides of a payment vehicle to which the image of Figure 1B has been applied;

Figure 3 illustrates a process flow for creating a payment vehicle as shown in Figures 2A and 2B;

Figure 4 illustrates a process for making online transactions using a payment vehicle as shown in Figures 2A and 2B;

Figure 5 illustrates a process flow for a person to add a cardholder as a payee;

Figure 6 illustrates a process flow for preparing non-transaction type vehicles based on information retrieval using the payment vehicle of Figures 2A and 2B;

Figure 7 provides a schematic decision diagram illustrating the ways in which various types of transactions are secured using a payment vehicle as shown in Figures 2A and 2B;

Figure 8 provides a schematic decision diagram illustrating how various transactions are performed using a payment vehicle as shown in Figures 2A and 2B;

Figure 9 is an expanded block diagram of an exemplary embodiment of a server architecture of a computer system for determining a fruition score;

Claims

1. A payment vehicle for use in initiating a transaction, the payment vehicle comprising:

a body; and

an image applied to the body, the image comprising encrypted data,

wherein the encrypted data is readable by an electronic reader to ascertain account details of a payment vehicle user, thereby to initiate the transaction, and wherein the image is visually comparable to the user, or to information produced by the user, to confirm the user's identity,

wherein the image comprises a first portion of information and a second portion of information, and

wherein the first portion of information is able to be decrypted by a first process and the second portion of information is able to be decrypted by a second process different from the first process.

2. The payment vehicle of claim 1, wherein the encrypted data comprises information that can be matched to an account of the user, thereby to ascertain the account details of the user for completion of the transaction.

3. The payment vehicle of claim 1, wherein the image comprises a picture of the user's face, the picture enabling visual confirmation of the user's identity by comparison of the face of the user with the picture.

4. The payment vehicle of claim 1, wherein the image is applied to a first side of the body, on which there is no other visually ascertainable information.

5. The payment vehicle of claim 1, wherein the first portion of information is able to be decrypted by using a first decryption key and the second portion of information is able to be decrypted using a second decryption key different from the first decryption key.

6. The payment vehicle of claim 1, consisting of the body and the image.

7. The payment vehicle of claim 1, consisting of the body, the image and a magnetic stripe.

8. The payment vehicle of claim 1, consisting of the body, the image and a near field communication chip.

9. The payment vehicle of claim 1, consisting of the body, the image, a magnetic stripe and a near field communication chip.

10. The payment vehicle of claim 1, wherein the image comprises a picture of the user's signature.

11. A method of performing a transaction, comprising:

reading encrypted data from a surface of a payment vehicle, reading a first portion of data and a second portion of data;

decrypting the first portion of data by a first process and the second portion of data by a second process;

identifying a user account, based on the decrypted data, from which funds for the transaction can be debited; and

completing the transaction using the funds from the user account.

12. The method of claim 11, further comprising determining details of at least one of a cardholder and a card issuer from the first portion of data.

13. The method of claim 12, wherein the identifying step comprises using the details to identify a cardholder account in a server system of an issuer.

14. The method of claim 11, wherein the decrypting step comprises decrypting the second portion of data.

15. A method for forming a payment vehicle, comprising:

capturing an image;

forming an encrypted image by encrypting data into the image, the data comprising at least one of a token, payment vehicle details and cardholder details; and

applying the encrypted image to a payment vehicle body,

wherein encrypting the data into the image comprises using different encryption algorithms to encrypt a first portion of the data and separately encrypt a second portion of the data.