

## THE INVENTION CLAIMED IS

1. A computer-implemented method, comprising:
  - receiving, with at least one processor, peer-to-peer payment data for a payment to be made from a first account associated with a first user to a second account associated with a second user, the peer-to-peer payment data comprising a payment amount;
  - generating, with at least one processor, an asymmetric key pair comprising a first key and a second key;
  - encrypting, with at least one processor, at least a portion of the peer-to-peer payment data with the first key to generate encrypted payment data;
  - storing, with at least one processor, the encrypted payment data;
  - communicating, with at least one processor, the second key to a first device associated with the first user;
  - receiving, with at least one processor, the second key from a second device associated with the second user;
  - decrypting, with at least one processor, the encrypted payment data based on the second key received from the second device; and
  - processing the payment from the first account to the second account based on decrypting the encrypted payment data.
2. The computer-implemented method of claim 1, further comprising: automatically transmitting the second key from the first device to the second device in response to input from the first user.
3. The computer-implemented method of claim 1, further comprising: automatically transmitting the second key from the first device to the second device in response to determining at least one rule has been satisfied.
4. The computer-implemented method of claim 1, further comprising generating, with at least one processor, a payment token based on the peer-to-peer payment data.

5. The computer-implemented method of claim 4, wherein the payment token comprises the encrypted payment data.

6. The computer-implemented method of claim 5, wherein the encrypted payment data comprises an encrypted value of a payment amount.

7. The computer-implemented method of claim 4, wherein the payment token comprises a unique identifier, an identifier associated with the second user, and the encrypted payment data, wherein the encrypted payment data comprises an encrypted value of a payment amount.

8. The computer-implemented method of claim 1, further comprising:

communicating, with at least one processor, at least a portion of the peer-to-peer payment data to a first issuer system associated with the first account.

9. The computer-implemented method of claim 8, wherein at least one processor of a payment system arranged remotely from the first device, the second device, and the first issuer system generates the asymmetric key pair, encrypts the at least a portion of the peer-to-peer payment data, and communicates the second key to the first device.

10. A system for revocable peer-to-peer payments, comprising at least one processor programmed or configured to:

receive peer-to-peer payment data for a payment to be made from a first account associated with a first user to a second account associated with a second user, the peer-to-peer payment data comprising a payment amount;

generate an asymmetric key pair comprising a first key and a second key;

encrypt at least a portion of the peer-to-peer payment data with the first key to generate encrypted payment data;

store the encrypted payment data;

communicate the second key to a first device associated with the first user;

receive the second key from a second device associated with the second user;

decrypt the encrypted payment data based on the second key received from the second device; and

process the payment from the first account to the second account based on decrypting the encrypted payment data.

11. The system of claim 10, wherein the at least one processor is further programmed or configured to automatically transmit the second key from the first device to the second device in response to input from the first user.

12. The system of claim 10, wherein the at least one processor is further programmed or configured to automatically transmit the second key from the first device to the second device in response to determining at least one rule has been satisfied.

13. The system of claim 10, wherein the at least one processor is further programmed or configured to generate a payment token based on the peer-to-peer payment data.

14. The system of claim 13, wherein the payment token comprises the encrypted payment data.

15. The system of claim 14, wherein the encrypted payment data comprises an encrypted value of a payment amount.

16. The system of claim 13, wherein the payment token comprises a unique identifier, an identifier associated with the second user, and the encrypted payment data, wherein the encrypted payment data comprises an encrypted value of a payment amount.

17. The system of claim 10, wherein the at least one processor is further programmed or configured to communicate at least a portion of the peer-to-peer payment data to a first issuer system associated with the first account.

18. The system of claim 10, wherein the at least one processor is further programmed or configured to automatically transmit the second key from the first device to the second device in response to input from the first user.

19. A computer program product for revocable peer-to-peer payments, comprising at least one non-transitory computer-readable medium including program instructions that, when executed by at least one processor, cause the at least one processor to:

- receive peer-to-peer payment data for a payment to be made from a first account associated with a first user to a second account associated with a second user, the peer-to-peer payment data comprising a payment amount;

- generate an asymmetric key pair comprising a first key and a second key;

- encrypt at least a portion of the peer-to-peer payment data with the first key to generate encrypted payment data;

- store the encrypted payment data;

- communicate the second key to a first device associated with the first user;

- receive the second key from a second device associated with the second user;

- decrypt the encrypted payment data based on the second key received from the second device; and

- process the payment from the first account to the second account based on decrypting the encrypted payment data.

20. The computer program product of claim 19, wherein the program instructions, when executed by the at least one processor, further cause the at least one processor to generate a payment token based on the peer-to-peer payment data.