CLAIMS

WHAT IS CLAIMED IS:

1. A device stand comprising:

a base comprising an extension in a direction perpendicular from the base;

a device docking case connected to the base via the extension, the device docking case configured to accept a mobile computing device, and the device docking case comprising an opening for insertion of a payment card or an opening for a protrusion of a portion of a payment card reader component from the device docking case;

a rotatable joint connecting the extension and the device docking case, the rotatable joint configured to enable the device docking case to rotate over the extension; and

the payment card reader component at least partially within the device docking case, the payment card reader component configured to accept a payment card for reading of data stored on the payment card, the payment card reader component comprising one or more hardware processors configured to execute instructions to cause the payment card reader component to perform operations comprising:

detecting a physical connection of the payment card reader component to the mobile computing device, wherein the physical connection causes power to be provided to the payment card reader component from the mobile computing device;

connecting to the mobile computing device for data communications via the physical connection; and

activating the payment card reader component for reading the payment card.

2. The device stand of claim 1, wherein the payment card reader component comprises an EMV chip reader, a device interface, and a connector between the EMV chip reader and the device interface, wherein the detecting the physical connection comprises receiving the power to the EMV chip reader via the connector.

3. The device stand of claim 2, wherein the device interface comprises at least one of a micro-USB adapter interface or a Lightning adapter interface.

4. The device stand of claim 2, wherein the connector further comprises a power connector component within the payment card reader component, and wherein the device interface provides the power from the mobile computing device to the EMV chip reader via the power connector component.

5. The device stand of claim 2, wherein the payment card reader component comprises a power circuit splitter that receives the power from one of an external power supply or an internal power supply of the device stand, and wherein the power circuit splitter provides the power to the EMV chip reader and the mobile computing device for charging the mobile computing device.

6. The device stand of claim 1, wherein the base further comprises a curved portion or an arcuate portion connecting the extension to a bottom of the base, and wherein the bottom of the base is configured to be placed on or secured to a surface.

7. The device stand of claim 6, wherein the rotatable joint is further configured to enable the device docking case to rotate and rest facing a first direction away from the extension, and wherein the rotatable joint is further configured to enable the device docking case to rotate and rest against a back curvature of curved portion facing a second direction.

8. The device stand of claim 1, wherein one of the device docking case or the rotatable joint comprises one of a magnetic release or a mechanical release configured to enable the device docking case to be removed from or connected to the curved portion.

9. The device stand of claim 1, wherein the device docking case comprises one of a snap fit securing mechanism, a slide lock, or at least one screw configured to secure the mobile computing device inside or against the device docking case.

10. The device stand of claim 1, further comprising:

a power supply configured to provide the power from an external power source, the power supply comprising one of a wired power supply or an inductive power supply.

11. The device stand of claim 10, wherein the power supply is further configured to enable charging the mobile computing device or providing the power to the payment card reader component.

12. The device stand of claim 1, wherein the operations further comprise:

reading, by the payment card reader component, data stored on the payment card; and

communicating the data to the mobile computing device for transaction processing.

13. The device stand of claim 1, wherein the operations further comprise:

in response to activating the payment card reader component, causing an application on the mobile computing device to open, wherein the application is associated with reading the payment card by the payment card reader component.

14. A computing device docking system comprising:

a first structure comprising a curved component and configured to provide a surface attachment at a first end and a rotatable hinge connector at a second end; and

a second structure configured to encapsulate at least a portion of a computing device and secure the computing device within the second structure, wherein the second structure attaches to the rotatable hinge connector and comprises a physical card reader, wherein the second structure comprises the physical card reader in one of a body of the second structure with a physical card acceptance slot in a side of the body or a protrusion

from the side of the body, and wherein the physical card reader comprises one or more hardware processors configured to execute instructions to cause the physical card reader to perform operations comprising:

establishing a data connection to the computing device when the computing device is secured within the second structure and connected to the physical card reader;

reading data from a card chip of a physical card; and

processing the data with the computing device.

15. The computing device docking system of claim 14, wherein the curved component comprises a shape corresponding to one of a C letter, a portion of an oval, an arc, or a portion of a circle, and wherein the rotatable hinge connector enables the second structure to be inverted over the first structure and enables viewing of the computing device in opposite directions.

16. The computing device docking system of claim 14, wherein the establishing the data connection occurs via a micro-USB adapter or a Lightning adapter.

17. The computing device docking system of claim 14, wherein the second structure further comprises a power connector between the computing device and the physical card reader, and wherein the power connector enables a power to flow in a direction from the computing device to the physical card reader based on an operation executable by the computing device.

18. The computing device docking system of claim 14, wherein the data connection comprises a wireless data connection using one of Bluetooth, Bluetooth Low Energy, or near field communications.

19. A method comprising:

detecting, by a physical card reader component, a placement of a tablet computing device within a tablet case of a curved tablet stand, wherein the physical card reader component is attached to at least a portion of the tablet case;

activating a chip reader of the physical card reader component;

receiving card data from a physical card via the chip reader; and

processing the card data with the tablet computing device.

20. The method of claim 19, wherein the detecting comprises receiving power by the physical card reader component from the tablet computing device, and wherein prior to the receiving the card data, the method further comprises:

activating a transaction processing application on the tablet computing device, wherein the processing the card data comprises transmitting the card data to the transaction processing application.

CLAIMS

WHAT IS CLAIMED IS:

1. A device stand comprising:

a base comprising an extension in a direction perpendicular from the base;

a device docking case connected to the base via the extension, the device docking case configured to accept a mobile computing device, and the device docking case comprising an opening for insertion of a payment card or an opening for a protrusion of a portion of a payment card reader component from the device docking case;

a rotatable joint connecting the extension and the device docking case, the rotatable joint configured to: enable the device docking case to rotate over the extension, enable the device docking case to rotate and rest in a position facing a first direction away from the extension, and enable the device docking case to rotate and rest against a back curvature facing a second direction; and

the payment card reader component at least partially within the device docking case, the payment card reader component configured to accept a payment card for reading of data stored on the payment card, the payment card reader component comprising one or more hardware processors configured to execute instructions to cause the payment card reader component to perform operations comprising:

detecting a physical connection of the payment card reader component to the mobile computing device, wherein the physical connection causes power to be provided to the payment card reader component from the mobile computing device;

connecting to the mobile computing device for data communications via the physical connection; and

activating the payment card reader component for reading the payment card.

2. The device stand of claim 1, wherein the payment card reader component comprises an EMV chip reader, a device interface, and a connector between the EMV chip reader and the device interface, wherein the detecting the physical connection comprises receiving the power to the EMV chip reader via the connector.

3. The device stand of claim 2, wherein the device interface comprises at least one of a micro-USB adapter interface or a Lightning adapter interface.

4. The device stand of claim 2, wherein the connector further comprises a power connector component within the payment card reader component, and wherein the device interface provides the power from the mobile computing device to the EMV chip reader via the power connector component.

5. The device stand of claim 2, wherein the payment card reader component comprises a power circuit splitter that receives the power from one of an external power supply or an internal power supply of the device stand, and wherein the power circuit splitter provides the power to the EMV chip reader and the mobile computing device for charging the mobile computing device.

6. The device stand of claim 1, wherein the base further comprises a curved portion or an arcuate portion connecting the extension to a bottom of the base, and wherein the bottom of the base is configured to be placed on or secured to a surface.

7. The device stand of claim 1, wherein one of the device docking case or the rotatable joint comprises one of a magnetic release or a mechanical release configured to enable the device docking case to be removed from or connected to the curved portion.

8. The device stand of claim 1, wherein the device docking case comprises one of a snap fit securing mechanism, a slide lock, or at least one screw configured to secure the mobile computing device inside or against the device docking case.

9. The device stand of claim 1, further comprising:

a power supply configured to provide the power from an external power source, the power supply comprising one of a wired power supply or an inductive power supply.

10. The device stand of claim 9, wherein the power supply is further configured to enable charging the mobile computing device or providing the power to the payment card reader component.

11. The device stand of claim 1, wherein the operations further comprise:

reading, by the payment card reader component, data stored on the payment card; and

communicating the data to the mobile computing device for transaction processing.

12. The device stand of claim 1, wherein the operations further comprise:

in response to activating the payment card reader component, causing an application on the mobile computing device to open, wherein the application is associated with reading the payment card by the payment card reader component.

13. A computing device docking system comprising:

a first structure comprising a curved component and configured to provide a surface attachment at a first end and a rotatable hinge connector at a second end; and

a second structure configured to encapsulate at least a portion of a computing device and secure the computing device within the second structure, wherein the second structure attaches to the rotatable hinge connector and comprises a physical card reader, wherein the second structure comprises the physical card reader in one of a body of the second structure with a physical card acceptance slot in a side of the body or a protrusion from the side of the body, and wherein the physical card reader comprises one or more hardware processors configured to execute instructions to cause the physical card reader to perform operations comprising:

establishing a data connection to the computing device when the computing device is secured within the second structure and connected to the physical card reader;

reading data from a card chip of a physical card; and

processing the data with the computing device,

wherein the curved component comprises a shape corresponding to one of a C letter, a portion of an oval, an arc, or a portion of a circle, and wherein the rotatable hinge connector enables the second structure to be inverted over the first structure and enables viewing of the computing device in opposite directions.

14. The computing device docking system of claim 13, wherein the establishing the data connection occurs via a micro-USB adapter or a Lightning adapter.

15. The computing device docking system of claim 13, wherein the second structure further comprises a power connector between the computing device and the physical card reader, and wherein the power connector enables a power to flow in a direction from the

computing device to the physical card reader based on an operation executable by the computing device.

16. The computing device docking system of claim 13, wherein the data connection comprises a wireless data connection using one of Bluetooth, Bluetooth Low Energy, or near field communications.

17. A method comprising:

detecting, by a physical card reader component, a placement of a tablet computing device within a tablet case of a curved tablet stand, wherein the physical card reader component is attached to at least a portion of the tablet case;

detecting that the tablet computing device has been inverted to rest on a back portion of a curvature of the curved tablet stand based on data from one or more sensors of the tablet computing device;

determining that the tablet computing device is in a position, based on detecting the tablet computing device has been inverted to rest on the back portion of the curvature, to accept card data via a chip reader of the physical card reader component;

activating, based on the determining, the chip reader of the physical card reader component;

receiving the card data from a physical card via the chip reader; and

processing the card data with the tablet computing device.

18. The method of claim 17, wherein the detecting the placement comprises receiving power by the physical card reader component from the tablet computing device, and wherein prior to the receiving the card data, the method further comprises:

activating a transaction processing application on the tablet computing device, wherein the processing the card data comprises transmitting the card data to the transaction processing application.

19. The device stand of claim 1, further comprising a bumper that limits a movement of the rotatable joint connecting to the extension to a field of range for the device stand.

20. The computing device docking system of claim 13, further comprising a bumper that limits a field of movement of the first structure and the second structure using the curved component.