

## Claims

What is claimed is:

1. A computer-implemented system for time-based split shipping partially delayed orders, the system comprising:

a network interface connected to two separate devices;

one or more memory devices storing instructions; and

one or more processors configured to execute the instructions to:

display, via a first user interface for a first display, a representation of one or more cells in a sorting apparatus;

send ~~an~~ a first indication to a second user interface for a second display instructing which of the one or more cells in the sorting apparatus to add items from an order to;

determine that the order is occupying the one or more cells in the sorting apparatus for a predetermined amount of time;

in response to ~~an affirmative~~ the determination that the order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time, modify ~~an appearance~~ one of shape or color of the one or more cells in the representation of one or more cells associated with the order and provide an alert via the first user interface for the first display;

~~send an indication to split the order;~~

receive ~~an~~ a second indication to split the order; and

send ~~an~~ a third indication to the second user interface for the second display to complete the one or more cells associated with the order for split shipping and create a new order with remaining items from the order to be allocated to at least one of a new cell in the sorting apparatus or another sorting apparatus.

2. The system of claim 1, wherein the first user interface for the first display and the second user interface for the second display are displayed on one of a smart phone, a tablet, a laptop, or other computer device.
3. The system of claim 1, wherein the first user interface for the first display is depicted on a user device associated with a manager.
4. The system of claim 1, wherein the second user interface for the second display is depicted on a user device associated with a worker.
5. The system of claim 1, further comprising a timer for determining an amount of time after assigning the order to the one or more cells.
6. The system of claim 1, wherein the predetermined amount of time is thirty minutes.

7. The system of claim 1, wherein the one or more processors are further configured to execute the instructions to:

determine that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time;

in response to an affirmative determination that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time, modify an appearance of the one or more cells associated with the new order and provide an alert via the first user interface for the first display;

send an indication to split the new order;

receive an indication to split the new order; and

send an indication to the second user interface for the second display to complete the one or more cells associated with the new order for split shipping and create a second new order with remaining items from the new order to be allocated to at least one of a second new cell in the sorting apparatus or another sorting apparatus.

8. A computer-implemented method for time-based split shipping partially delayed orders, the method comprising:

displaying, via a first user interface for a first display, a representation of one or more cells in a sorting apparatus;

sending ~~an a first~~ indication to a second user interface for a second display instructing which of the one or more cells in the sorting apparatus to add items from an order to;

determining that the order is occupying the one or more cells in the sorting apparatus for a predetermined amount of time;

in response to ~~an affirmative~~the determination that the order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time, modifying one of shape or color~~an appearance~~ of the one or more cells in the representation of one or more cells associated with the order and providing an alert via the first user interface for the first display;

~~sending an indication to split the order;~~

receiving ~~an~~a second indication to split the order; and

sending ~~an~~a third indication to the second user interface for the second display to complete the one or more cells associated with the order for split shipping and creating a new order with remaining items from the order to be allocated to at least one of a new cell in the sorting apparatus or another sorting apparatus.

9. The method of claim 8, wherein the first user interface for the first display and the second user interface for the second display are displayed on one of a smart phone, a tablet, or other computer device.

10. The method of claim 8, wherein the first user interface for the first display is depicted on a user device associated with a manager.

11. The method of claim 8, wherein the second user interface for the second display is depicted on a user device associated with a worker.
12. The method of claim 8, further comprising determining an amount of time, via a timer, after assigning the order to the one or more cells.
13. The method of claim 8, wherein the predetermined amount of time is thirty minutes.
14. The method of claim 8, further comprising:
  - determining that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time;
  - in response to an affirmative determination that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time, modifying an appearance of the one or more cells associated with the new order and provide an alert via the first user interface for the first display;
  - sending an indication to split the new order;
  - receiving an indication to split the new order; and
  - sending an indication to the second user interface for the second display to complete the one or more cells associated with the new order for split shipping and create a second new order with remaining items from the new order to be

allocated to at least one of a second new cell in the sorting apparatus or another sorting apparatus.

15. A computer-implemented system for split shipping partially delayed orders, the system comprising:

a network interface connecting two separate devices; one or more memory devices storing instructions; and

one or more processors configured to execute the instructions to:

display, via a first user interface for a first display, a representation of one or more cells in a sorting apparatus;

send ~~an~~ a first indication to a second user interface for a second display instructing which of the one or more cells in the sorting apparatus to add items from an order to;

modify one of shape or color ~~an appearance~~ of the one or more cells in the representation of one or more cells associated with the order and provide an alert via the first user interface for the first display;

~~send an indication to split the order;~~

receive ~~an~~ a second indication to split the order; and

send ~~an~~ a third indication to the second user interface for the second display to complete the one or more cells associated with the order for split shipping and create a new order with remaining items from the order to be allocated to at least one of a new cell in the sorting apparatus or another sorting

apparatus.

16. The system of claim 15, wherein the first user interface for the first display and the second user interface for the second display are displayed on one of a smart phone, a tablet, a laptop, or other computer device.

17. The system of claim 15, wherein the first user interface for the first display is depicted on a user device associated with a manager.

18. The system of claim 15, wherein the second user interface for the second display is depicted on a user device associated with a worker.

19. The system of claim 15, further comprising a timer for determining an amount of time after assigning the order to the one or more cells.

20. The system of claim 15, wherein the one or more processors are further configured to execute the instructions to:

determine that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time;

in response to an affirmative determination that the new order is occupying the one or more cells in the sorting apparatus for the predetermined amount of time, modify an appearance of the one or more cells associated with the new order and provide an alert via the first user interface for the first display;

send, via the first user interface for the first display, an indication on the one or more cells associated with the new order to split the new order;

receive an indication to split the new order; and

send an indication to the second user interface for the second display to complete the one or more cells associated with the new order for split shipping and create a second new order with remaining items from the new order to be allocated to at least one of a second new cell in the sorting apparatus or another sorting apparatus.