

Claims

1. A computer-implemented system for tracking items in a supply chain, the system comprising:

a memory storing instructions; and

at least one processor configured to execute the instructions to:

receive a first input indicating that the item has entered a first station, the first input comprising a first location identifier;

assign an inventory identifier to the item;

store the first location identifier and the inventory identifier in a data store,

associating the first location identifier with the inventory identifier;

receive a second input comprising the inventory identifier and a second location identifier when the item is moved to a second station;

store the second location identifier such that the second location identifier is

associated with the inventory identifier and with at least one previous station

associated with the inventory identifier;

receive a request for a diagram;

generate a diagram tracking scans of the item performed at multiple locations

and user identifiers associated with devices scanning the item at the multiple

locations, wherein the diagram includes location identifiers and item identifiers

based on the performed scans to track the item from the first station to a most

recent station; and

transmit the diagram for display at a second user device.

2. The computer-implemented system of claim 1, wherein the instructions are further configured to cause the processor to store the diagram in the data store.
3. The computer implemented system of claim 1, wherein the data store comprises at least one database.
4. The computer-implemented system of claim 1, wherein the first input also includes a user identifier.
5. The computer-implemented system of claim 1, wherein the second input also includes a user identifier that identifies what user placed the item in the second station.
6. The computer-implemented system of claim 1, wherein the item contains subitems that receive a subitem inventory identifier when the subitems are stored in different location identifiers.
7. The computer-implemented system of claim 1, wherein the inventory identifier accounts for subitems by creating a subitem inventory identifier that appends additional information to the end of the inventory identifier.
8. The computer-implemented system of claim 1, wherein the diagram is a tree diagram.
9. The computer-implemented system of claim 1,
 wherein the inventory identifier accounts for subitems by creating a subitem
 inventory identifier that appends additional information to the end of the inventory
 identifier; and
 wherein the diagram is a tree diagram with each branch of the tree diagram
 representing a different subitem.
10. The computer-implemented system of claim 1,

wherein the first input includes scan data recorded when scanning a package identifier of the item, the scan data comprises at least one of the inventory identifier, a package identifier, a user identifier, an employee identifier, a device identifier, an International Mobile Subscription Identifier, a phone number, a Universal Unique Identifier, a Globally Unique Identifier, a date, or a time.

11. A method for tracking items in a supply chain, comprising steps of:

receiving a first input indicating that the item has entered a first station, the first input comprising a first location identifier;

assigning an inventory identifier to the item;

storing the first location identifier and the inventory identifier, comprising associating the first location identifier with the inventory identifier;

receiving a second input comprising the inventory identifier and a second location identifier when the item is moved to a second station;

storing the second location identifier such that the second location identifier is associated with the inventory identifier and with at least one previous station associated with the inventory identifier;

receiving a request for a diagram;

generating a diagram tracking scans of the item performed at multiple locations and user identifiers associated with devices scanning the item at the multiple locations, wherein the diagram includes location identifiers and item identifiers based on the performed scans to track the item from the first station to a most recent station; and

transmitting the diagram for display at a second user device.

12. The method of claim 11 further comprising storing the diagram.
13. The method of claim 11, wherein the location identifiers and inventory identifier are stored in at least one database.
14. The method of claim 11, wherein the first input also includes a user identifier that identifies what user placed the item in the first station.
15. The method of claim 11, wherein the second input also includes a user identifier that identifies what user placed the item in the second station.
16. The method of claim 11, wherein the item contains subitems that receive a subitem inventory identifier when the subitems are stored in different location identifiers.
17. The method of claim 11, wherein the inventory identifier accounts for subitems by creating a subitem inventory identifier that appends additional information to the end of the inventory identifier.
18. The method of claim 11,
 wherein the inventory identifier accounts for subitems by creating a subitem
 inventory identifier that appends additional information to the end of the inventory
 identifier; and
 wherein the diagram is a tree diagram with each branch of the tree diagram
 representing a different subitem.
19. The computer-implemented system of claim 1,
 wherein the first input includes scan data from a user scanning the item, the scan
 data comprises at least one of the inventory identifier, a package identifier, a user
 identifier, an employee identifier, a device identifier, an International Mobile

Subscription Identifier, a phone number, a Universal Unique Identifier, a Globally Unique Identifier, a date, a time, and a location identifier.

20. A computer-implemented system for tracking items in a supply chain, the system comprising:

a memory storing instructions; and

at least one processor configured to execute the instructions to:

receive a first input indicating that the item has entered a first station, the first input comprising a first location identifier, and wherein the first input includes scan data from a user scanning the item, the scan data comprises at least one of a inventory identifier, a package identifier, a user identifier, an employee identifier, a device identifier, an International Mobile Subscription Identifier, a phone number, a Universal Unique Identifier, a Globally Unique Identifier, a date, or a time;

assign an inventory identifier to the item, wherein the inventory identifier accounts for subitems by creating a subitem inventory identifier that appends additional information to the end of the inventory identifier;

store the first location identifier and the inventory identifier, the storing comprising associating the first location identifier with the inventory identifier;

receive a second input comprising the inventory identifier and a second location identifier when the item is moved to a second station, wherein the second input includes scan data from a user scanning the item, the scan data comprises at least one of the inventory identifier, a package identifier, a user identifier, an employee identifier, a device identifier, an International Mobile

Subscription Identifier, a phone number, a Universal Unique Identifier, a Globally Unique Identifier, a date, or a time;

store the second location identifier such that the second location identifier is associated with the inventory identifier and with at least one previous station associated with the inventory identifier;

receive a request for a diagram;

generate a diagram tracking scans of the item performed at multiple locations and user identifiers associated with devices scanning the item at the multiple locations, wherein the diagram includes location identifiers and item identifiers based on the performed scans to track the item from the first station to a most recent station, and wherein the diagram is a tree diagram with each branch of the tree diagram representing a different subitem when the item is divided into subitems; and

transmit the diagram for display at a second user device.