

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

17 JAN 2020

Applicant's or agent's file reference
5335WO01

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US2019/061586

International filing date (day/month/year)

15 November 2019

Priority date (day/month/year)

03 December 2018

International Patent Classification (IPC) or both national classification and IPC

IPC(8) - B65G 1/137; B65G 3/00; G06Q 10/08; G06Q 50/28 (2019.01)

CPC - B65G 1/1373; B65G 1/1375; B65G 1/1378; G06Q 10/08; G06Q 50/28 (2019.08)

Applicant **WALMART APOLLO, LLC**

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450
Facsimile No. 571-273-8300

Date of completion of this opinion

24 December 2019

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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - the international application in the language in which it was filed.
 - a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a)).
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. forming part of the international application as filed:
 - in the form of an Annex C/ST.25 text file.
 - on paper or in the form of an image file.
 - b. furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. furnished subsequent to the international filing date for the purposes of international search only:
 - in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
 - on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).
4. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	7, 10-13, 16-20	YES
	Claims	1-6, 8, 9, 14, 15	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1, 3, 4, 6, 8, 9, 14, and 15 lack an inventive step under PCT Article 33(3) as being obvious over Global Equipment Company Inc. (hereinafter Global Equipment) in view of Treston Inc. (hereinafter Treston) and Ditges et al. (hereinafter Ditges).

Regarding Claim 1, Global Equipment discloses a picking and packaging cart (P. 1; heavy duty mobile packaging work bench is a cart on which picked items may be placed and then packaged) comprising: a frame (Analyst Modified Figure [hereinafter "AMF"]; the frame includes the portions of vertical members 1A-D below the shelf 2 that support the vertical members 1A-D that hold the shelf rack 2 and 3 and the packaging shelf 5); a shelf rack attached to the frame (shelves 2 and 3; AMF; as can be seen in AMF, shelves 2 and 3 are attached to the vertical members 1A-D which are attached to the frame, i.e., the portions of vertical members 1A-D below shelf 2), the shelf rack comprising at least two pairs of vertical members (vertical members 1A-D, AMF; the shelf rack includes a first pair for vertical members 1A+B and a second pair of vertical members 1C+D) and a plurality of shelf divisions (dividers 4, AMF; as shown in AMF, the shelf 2 is composed a multiple shelf divisions formed by the dividers 4); at least four wheels attached to the frame (AMF; as shown in AMF, each of the vertical members 1A-D have a wheel at the bottom and there are four wheels), each of the at least four wheels disposed nearby a corner of the frame (as shown in AMF, the four wheels are positioned at the corners of the frame), wherein at least two wheels of the at least four wheels comprise swivel casters (as shown in AMF, each of the wheels is a swivel caster); a packaging shelf arrangement attached to the frame (shelf 5, AMF; shelf 5 in the packing workbench is a shelf for packaging items and it is attached to the frame via the vertical members 1A-D that support the shelf 5), the packaging shelf arrangement comprising at least two pairs of vertical members (vertical members 1A-D, AMF; the vertical members 1A-D are attached to the bottom of shelf 5 and support it) and a top shelf (shelf 5, AMF), wherein at least one pair of the vertical members of the packaging shelf arrangement are shared with the shelf rack (vertical members 1A-D, AMF; the vertical members A-D are shared by the shelf rack and the packaging shelf arrangement), and wherein the top shelf of the packaging shelf arrangement provides a flat packaging surface (as shown in AMF, shelf 5 is flat and may be used as a packaging surface); and a second shipping container support unit attached to the packaging shelf arrangement (attachment 6, AMF; as shown in AMF, attachment 6 is attached to the top of shelf 5 and includes shipping container support units at the top of the attachment where the shipping containers are supported on the top shelf).

Global Equipment fails to explicitly disclose a first handle attached to the frame and at least two accessory support units attached to the shelf rack, the two accessory support units comprising at least two different configurations and a first shipping container support unit attached to the shelf rack, the first shipping container support unit configured to hold a plurality of shipping containers of a first size.

Treston teaches a packaging cart (PP. 17-18; multicart, as shown in detail on p. 18, is a packaging cart configured to hold packaging materials while a user packages items on a surface, as shown on p. 17) comprising a first handle attached to the frame (P. 18; the handle is shown just below tablet bracket 6 and it is attached to the frame, i.e., the vertical members supporting the shelves and accessory supports) and at least two accessory support units attached to the shelf rack (tablet holder 6, roll holder set 8, document holder 11, and equipment tray 12, P. 18; as shown on p. 18, the multicart includes many accessory support units for holding accessories such as a tablet, rolls of packaging material, documents that have information about the item being packaged, and other equipment), the two accessory support units comprising at least two different configurations (P. 18; the accessory support units each have a different configuration, e.g., the tablet holder 6 is a different configuration than the roll holder 8).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Treston for the purpose of providing a handle and at least two accessory support units so that a user can move the cart around more easily via the handle and the accessory units can hold items to assist in the packaging so that a user does not have to move from the packaging area to get items necessary for packaging.

Ditges teaches a picking and packaging cart (Abstract) comprising a shelf rack (cart 10; Figs. 1-2; Para. [0022]; the cart 10 includes a rack of shelves 14, 16, and 18) a first shipping container support unit attached to the shelf rack (bag holders 94, Figs. 1 and 2; Para. [0028]; the bag holders 94 are attached to the top shelf 14 and support containers such as bags), the first shipping container support unit configured to hold a plurality of shipping containers of a first size (Figs. 1-2; Para. [0028]; the bag holders 94 are configured to hold a plurality of bags of a first size).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Ditges for the purpose of providing a shipping container support unit for supporting bags so that a user is able to easily access bags necessary for shipping and the cart is able to hold a wider variety of shipping containers, thus allowing the user to perform more packaging operations with the single cart.

Regarding Claim 3, modified Global Equipment discloses the cart of claim 1 wherein the shelf rack comprises: a top shelf providing a flat surface (shelf 3, AMF; as shown in AMF, shelf 3 of the shelf rack is a flat surface).

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Continuation of:

Regarding Claim 4, modified Global Equipment discloses the cart of claim 3 wherein the shelf rack comprises at least three vertical shelf divisions disposed below the top shelf of the shelf rack (shelf dividers 4, AMF; as shown in AMF, shelf 2 is below the top shelf 3, and the shelf 2 includes 4 vertical shelf dividers 4 that divide the shelf 2 into 5 parts).

Regarding Claim 6, modified Global Equipment discloses the cart of claim 1. However, Global Equipment fails to explicitly disclose wherein the first handle is curved in at least two dimensions.

Treston teaches a packaging cart (P. 18, the multicart is shown on p. 18) wherein the first handle is curved in at least two dimensions (P. 18; as shown on P. 18, the handle is curved in at least two dimensions, i.e., the x and y axes).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Treston for the purpose of providing a curved handle such that user can more easily grip the handle comfortably and can access the handle from more angles as it is curved.

Regarding Claim 8, modified Global Equipment discloses the cart of claim 1. However, Global Equipment fails to explicitly disclose wherein at least one of the accessory support units comprises a printer holder.

Ditges teaches a picking and packaging cart (Abstract) wherein at least one of the accessory support units comprises a printer holder (printer base 102, Figs. 1 and 2; Para. [0029]; the printer base 102 supports a printer 104 that prints labels to be attached to the totes 70 and bags 96).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Ditges for the purpose of providing an accessory support unit comprising a printer holder so that a user can print labels to be affixed to the packages (Ditges, Para. [0029]; "the primary purpose of the printer 104 is to print labels 106 to be attached to the totes 70 and the bags 96") containing information such as the contents of the package and its destination.

Regarding Claim 9, modified Global Equipment discloses the cart of claim 1. However, Global Equipment fails to explicitly disclose wherein the first shipping container support unit comprises a pair of bag hooks.

Ditges teaches a picking and packaging cart (Abstract) wherein the first shipping container support unit comprises a pair of bag hooks (bag holder 94, Figs. 1 and 2; Para. [0028]; the bag holders 94 are a plurality of bag hooks, as can be seen in Figs. 1 and 2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Ditges for the purpose of providing a shipping container support unit for supporting bags so that a user is able to easily access bags necessary for shipping and the cart is able to hold a wider variety of shipping containers, thus allowing the user to perform more packaging operations with the single cart.

Regarding Claim 14, modified Global Equipment discloses the cart of claim 1 wherein the second shipping container support unit is configured to hold a plurality of shipping containers of a second size different than the first size (attachment 6, AMF; as shown in AMF, the attachment 6 is configured to hold a plurality of shipping containers of a second size different than the first size, e.g., the containers in the top left of attachment 6 is a different size than the containers of a first size, i.e., bags).

Regarding Claim 15, modified Global Equipment discloses the cart of claim 14 wherein the second shipping container support unit is further configured to hold a plurality of shipping containers of a third size different than the first size and the second size (attachment 6, AMF; as shown in AMF, the attachment 6 is configured to hold a plurality of shipping containers of a third size different than the first and second sizes, e.g., the containers in the top middle of attachment 6 is a different size than the containers of a first size, i.e., bags, and the containers of a second size, i.e., the flat containers in the top left of the attachment 6).

Claim 2 lacks an inventive step under PCT Article 33(3) as being obvious over Global Equipment Company Inc. (hereinafter Global Equipment) in view of Treston Inc. (hereinafter Treston), Ditges et al. (hereinafter Ditges), and Amazon Technologies, Inc. (hereinafter Amazon).

Regarding Claim 2, modified Global Equipment discloses the cart of claim 1. However, Global Equipment fails to explicitly disclose wherein the frame is comprised of aluminum.

Amazon teaches a picking and packaging cart (Abstract) wherein the frame is comprised of aluminum (Para. [0014]; the cart includes "a frame 103 constructed out of aluminum").

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Amazon for the purpose of constructing the frame out of aluminum as aluminum is a strong, light and easily obtainable material that would allow a user to easily move the cart around a facility while also being strong enough to support the packages and packaging material.

Claim 5 lacks an inventive step under PCT Article 33(3) as being obvious over Global Equipment Company Inc. (hereinafter Global Equipment) in view of Treston Inc. (hereinafter Treston), Ditges et al. (hereinafter Ditges), and Hironaka et al. (hereinafter Hironaka).

Regarding Claim 5, modified Global Equipment discloses the cart of claim 1. However, Global Equipment fails to explicitly disclose wherein the first handle comprises two separate mirrored portions.

Hironaka teaches a picking cart (cart 1) wherein the first handle comprises two separate mirrored portions (handles 9, Fig. 1; Para. [0018]; the picking cart includes handles 9 that are two separate handles that are mirrored, as shown in Fig. 1).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Global Equipment with the teaching of Hironaka for the purpose of providing the handle as two separate handle portions such that a user can more easily move the cart around the facility and a user can still use a handle if one of the parts of the handle is damaged or knocked off the cart.

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Continuation of:

Claims 7, 10-13, and 16-20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest:

Regarding claim 7, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 further comprising: a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension.

The following prior art is made of record to support and further define the reasons that claim 7 meets the criteria set out in PCT Article 33(2)-(3):

Treston teaches a packaging cart (PP. 17-18; multicart, as shown in detail on p. 18, is a packaging cart configured to hold packaging materials while a user packages items on a surface, as shown on p. 17) comprising a curved first handle attached to the frame (P. 18; the handle is shown just below tablet bracket 6 and it is attached to the frame, i.e., the vertical members supporting the shelves and accessory supports). However, Treston fails to teach a pair of secondary handles disposed on one of the shared vertical members. Komatsu (US 5,646,616 to Komatsu) teaches a picking cart (Abstract) including a handle attached to the frame of the cart (Fig. 2). However, Komatsu fails to teach a pair of secondary handles disposed on one of the shared vertical members.

In general, the prior art of record, individually or in combination, do not teach a pair of secondary handles disposed on one of the shared vertical members.

Regarding claim 10, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 wherein the first shipping container support unit is repositionable.

The following prior art is made of record to support and further define the reasons that claim 10 meets the criteria set out in PCT Article 33(2)-(3):

Ditges teaches a picking and packing cart (Abstract) including a first shipping container support unit (bag holders 94, Figs. 1 and 2). However, Ditges fails to explicitly teach the shipping container support unit is repositionable.

In general, the prior art of record, individually or in combination, do not teach a first shipping container support unit is repositionable.

Regarding claim 11, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement.

The following prior art is made of record to support and further define the reasons that claim 11 meets the criteria set out in PCT Article 33(2)-(3):

Global Equipment teaches a packaging cart (AMF) including a second shipping container support unit (attachment 6, AMF) that is disposed above the top shelf of the packaging shelf arrangement. Global Equipment fails to explicitly disclose wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement.

In general, the prior art of record, individually or in combination, do not teach the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement.

Regarding claim 12, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 wherein the second shipping container support unit comprises two pairs of bag hooks.

The following prior art is made of record to support and further define the reasons that claim 12 meets the criteria set out in PCT Article 33(2)-(3):

Global Equipment teaches a packaging cart (AMF) including a second container support unit (attachment 6, AMF). However, Global Equipment fails to explicitly disclose the second container support unit comprises two pairs of bag hooks.

In general, the prior art of record, individually or in combination, do not teach the second container support unit comprises two pairs of bag hooks.

Regarding claim 13, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 wherein the second shipping container support unit is repositionable by sliding.

The following prior art is made of record to support and further define the reasons that claim 13 meets the criteria set out in PCT Article 33(2)-(3):

Global Equipment teaches a packaging cart (AMF) including a second container support unit (attachment 6, AMF). However, Global Equipment fails to explicitly disclose the second container support unit is repositionable by sliding.

In general, the prior art of record, individually or in combination, do not teach the second container support unit is repositionable by sliding

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Regarding claim 16, the prior art of record, individually or in combination, does not teach or fairly suggest the cart of claim 1 further comprising: a weight scale coupled to a wireless communication module.

The following prior art is made of record to support and further define the reasons that claim 16 meets the criteria set out in PCT Article 33(2)-(3):

Treston teaches a packaging station (p. 6; the packaging station includes a bench top for packaging items) including a scale for weighing the packages (p. 6; as shown at the top right of p. 6, the packaging platform includes a scale). However, Treston fails to explicitly disclose a weight scale coupled to a wireless communication module.

In general, the prior art of record, individually or in combination, do not teach a packaging station including a weight scale coupled to a wireless communication module.

Claim 17 depends from claim 16, and therefore meets the criteria set out in PCT Article 33(2)-(3) for at least the same reasons as claim 16.

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Regarding claim 18, the prior art of record, individually or in combination, does not teach or fairly suggest a picking and packaging cart comprising: a frame comprised of aluminum; a shelf rack attached to the frame, the shelf rack comprising: at least two pairs of vertical members, a top shelf providing a flat surface, and at least three vertical shelf divisions disposed below the top shelf of the shelf rack; a first handle attached to the frame, wherein the first handle comprises two separate mirrored portions, and wherein the first handle is curved in at least two dimensions; at least two accessory support units attached to the shelf rack, the two accessory support units comprising at least two different configurations, wherein at least one of the accessory support units comprises a printer holder; a first shipping container support unit attached to the shelf rack, the first shipping container support unit configured to hold a plurality of shipping containers of a first size, wherein the first shipping container support unit comprises a pair of bag hooks; at least four wheels attached to the frame, each of the at least four wheels disposed nearby a corner of the frame, wherein at least two wheels of the at least four wheels comprise swivel casters; a packaging shelf arrangement attached to the frame, the packaging shelf arrangement comprising at least two pairs of vertical members and a top shelf, wherein at least one pair of the vertical members of the packaging shelf arrangement are shared with the shelf rack, and wherein the top shelf of the packaging shelf arrangement provides a flat packaging surface; a second shipping container support unit attached to the packaging shelf arrangement, wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks, and wherein the second shipping container support unit is configured to hold a plurality of shipping containers of a second size different than the first size; and a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension.

The following prior art is made of record to support and further define the reasons that claim 18 meets the criteria set out in PCT Article 33(2)-(3):

Global Equipment discloses a picking and packaging cart (P. 1; heavy duty mobile packaging work bench is a cart on which picked items may be placed and then packaged) comprising: a frame (Analyst Modified Figure [hereinafter "AMF"]; the frame includes the portions of vertical members 1A-D below the shelf 2 that support the vertical members 1A-D that hold the shelf rack 2 and 3 and the packaging shelf 5); a shelf rack attached to the frame (shelves 2 and 3; AMF; as can be seen in AMF, shelves 2 and 3 are attached to the vertical members 1A-D), the shelf rack comprising: at least two pairs of vertical members (vertical members 1A-D, AMF; the shelf rack includes a first pair for vertical members 1A+B and a second pair of vertical members 1C+D), a top shelf providing a flat surface (shelf 3, AMF; shelf 3 is the top shelf of the shelf rack and, as can be seen in AMF, is a flat surface), and at least three vertical shelf divisions disposed below the top shelf of the shelf rack (shelf dividers 4, AMF; as shown in AMF, shelf 2 is below the top shelf 3, and the shelf 2 includes 4 vertical shelf dividers 4 that divide the shelf 2 into 5 parts); at least four wheels attached to the frame (AMF; as shown in AMF, each of the vertical members 1A-D have a wheel at the bottom and there are four wheels), each of the at least four wheels disposed nearby a corner of the frame (as shown in AMF, the four wheels are positioned at the corners of the frame), wherein at least two wheels of the at least four wheels comprise swivel casters (as shown in AMF, each of the wheels is a swivel caster); a packaging shelf arrangement attached to the frame (shelf 5, AMF; shelf 5 in the packing workbench is a shelf for packaging items and it is attached to the frame via the vertical members 1A-D that support the shelf 5), the packaging shelf arrangement comprising at least two pairs of vertical members (vertical members 1A-D, AMF; the vertical members 1A-D are attached to the bottom of shelf 5 and support it) and a top shelf (shelf 5, AMF), wherein at least one pair of the vertical members of the packaging shelf arrangement are shared with the shelf rack (vertical members 1A-D, AMF; the vertical members A-D are shared by the shelf rack and the packaging shelf arrangement), and wherein the top shelf of the packaging shelf arrangement provides a flat packaging surface (as shown in AMF, shelf 5 is flat and may be used as packaging surface); a second shipping container support unit attached to the packaging shelf arrangement (attachment 6, AMF; as shown in AMF, attachment 6 is attached to the top of shelf 5 and includes shipping container support units at the top of the attachment where the shipping containers are supported on the top shelf), and wherein the second shipping container support unit is configured to hold a plurality of shipping containers of a second size different than the first size (attachment 6, AMF; as shown in AMF, the attachment 6 is configured to hold a plurality of shipping containers of a second size different than the first size, e.g., the containers in the top left of attachment 6 is a different size than the containers of a first size, i.e., bags).

Global Equipment fails to explicitly disclose a frame comprised of aluminum; a first handle attached to the frame, wherein the first handle comprises two separate mirrored portions, and wherein the first handle is curved in at least two dimensions; at least two accessory support units attached to the shelf rack, the two accessory support units comprising at least two different configurations, wherein at least one of the accessory support units comprises a printer holder; a first shipping container support unit attached to the shelf rack, the first shipping container support unit configured to hold a plurality of shipping containers of a first size, wherein the first shipping container support unit comprises a pair of bag hooks; wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks; and a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension.

Amazon teaches a picking and packaging cart (Abstract) wherein the frame is comprised of aluminum (Para. [0014]; the cart includes "a frame 103 constructed out of aluminum").

Treston teaches a packaging cart (PP. 17-18; multicart, as shown in detail on p. 18, is a packaging cart configured to hold packaging materials while a user packages items on a surface, as shown on p. 17) comprising a first handle attached to the frame (P. 18; the handle is shown just below tablet bracket 6 and it is attached to the frame, i.e., the vertical members supporting the shelves and accessory supports) and at least two accessory support units attached to the shelf rack (tablet holder 6, roll holder set 8, document holder 11, and equipment tray 12, P. 18; as shown on p. 18, the multicart includes many accessory support units for holding accessories such as a tablet, rolls of packaging material, documents that have information about the item being packaged, and other equipment), the two accessory support units comprising at least two different configurations (P. 18; the accessory support units each have a different configuration, e.g., the tablet holder 6 is a different configuration than the roll holder 8).

Ditges teaches a picking and packaging cart (Abstract) comprising a shelf rack (cart 10; Figs. 1-2; Para. [0022]; the cart 10 includes a rack of shelves 14, 16, and 18) a first shipping container support unit attached to the shelf rack (bag holders 94, Figs. 1 and 2; Para. [0028]; the bag holders 94 are attached to the top shelf 14 and support containers such as bags), the first shipping container support unit configured to hold a plurality of shipping containers of a first size (Figs. 1-2; Para. [0028]; the bag holders 94 are configured to hold a plurality of bags of a first size) wherein the first shipping container support unit comprises a pair of bag hooks (bag holder 94, Figs. 1 and

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2; Para. [0028]; the bag holders 94 are a plurality of bag hooks, as can be seen in Figs. 1 and 2). and at least one of the accessory support units comprises a printer holder (printer base 102, Figs. 1 and 2; Para. [0029]; the printer base 102 supports a printer 104 that prints labels to be attached to the totes 70 and bags 96).

Hironaka teaches a picking cart (cart 1) wherein the first handle comprises two separate mirrored portions (handles 9, Fig. 1; Para. [0018]; the picking cart includes handles 9 that two separate handles that are mirrored, as shown in Fig. 1).

In general, the prior art of record, individually or in combination, do not teach wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks; and a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension.

Claim 19 depends from claim 18, and therefore meets the criteria set out in PCT Article 33(2)-(3) for at least the same reasons as claim 18.

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Regarding claim 20, the prior art of record, individually or in combination, does not teach or fairly suggest a picking and packaging cart comprising: a frame comprised of aluminum; a shelf rack attached to the frame, the shelf rack comprising: at least two pairs of vertical members, a top shelf providing a flat surface, wherein the top shelf of the shelf rack is perforated, and at least three vertical shelf divisions disposed below the top shelf of the shelf rack; a first handle attached to the frame, wherein the first handle comprises two separate mirrored portions, and wherein the first handle is curved in at least two dimensions; at least two accessory support units attached to the shelf rack, the two accessory support units comprising at least two different configurations, wherein at least one of the accessory support units comprises a printer holder; a first shipping container support unit attached to the shelf rack, the first shipping container support unit configured to hold a plurality of shipping containers of a first size, wherein the first shipping container support unit comprises a pair of bag hooks, and wherein the first shipping container support unit is repositionable; at least four wheels attached to the frame, each of the at least four wheels disposed nearby a corner of the frame, wherein the at least four wheels comprise swivel casters, and wherein at least two of the swivel casters are lockable to prevent swiveling; a packaging shelf arrangement attached to the frame, the packaging shelf arrangement comprising at least two pairs of vertical members and a top shelf, wherein at least one pair of the vertical members of the packaging shelf arrangement are shared with the shelf rack, and wherein the top shelf of the packaging shelf arrangement provides a flat packaging surface; a second shipping container support unit attached to the packaging shelf arrangement, wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks, wherein the second shipping container support unit is configured to hold a plurality of shipping containers of a second size different than the first size, wherein the second shipping container support unit is further configured to hold a plurality of shipping containers of a third size different than the first size and the second size; a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension; and a weight scale coupled to a wireless communication module, wherein the weight scale is integrated into the top shelf of the packaging shelf arrangement.

The following prior art is made of record to support and further define the reasons that claim 20 meets the criteria set out in PCT Article 33(2)-(3):

Global Equipment discloses a picking and packaging cart (P. 1; heavy duty mobile packaging work bench is a cart on which picked items may be placed and then packaged) comprising: a frame (Analyst Modified Figure [hereinafter "AMF"]; the frame includes the portions of vertical members 1A-D below the shelf 2 that support the vertical members 1A-D that hold the shelf rack 2 and 3 and the packaging shelf 5); a shelf rack attached to the frame (shelves 2 and 3; AMF; as can be seen in AMF, shelves 2 and 3 are attached to the vertical members 1A-D), the shelf rack comprising: at least two pairs of vertical members (vertical members 1A-D, AMF; the shelf rack includes a first pair for vertical members 1A+B and a second pair of vertical members 1C+D), a top shelf providing a flat surface (shelf 3, AMF; shelf 3 is the top shelf of the shelf rack and, as can be seen in AMF, is a flat surface), and at least three vertical shelf divisions disposed below the top shelf of the shelf rack (shelf dividers 4, AMF; as shown in AMF, shelf 2 is below the top shelf 3, and the shelf 2 includes 4 vertical shelf dividers 4 that divide the shelf 2 into 5 parts); at least four wheels attached to the frame (AMF; as shown in AMF, each of the vertical members 1A-D have a wheel at the bottom and there are four wheels), each of the at least four wheels disposed nearby a corner of the frame (as shown in AMF, the four wheels are positioned at the corners of the frame), wherein at least two wheels of the at least four wheels comprise swivel casters (as shown in AMF, each of the wheels is a swivel caster); a packaging shelf arrangement attached to the frame (shelf 5, AMF; shelf 5 in the packing workbench is a shelf for packaging items and it is attached to the frame via the vertical members 1A-D that support the shelf 5), the packaging shelf arrangement comprising at least two pairs of vertical members (vertical members 1A-D, AMF; the vertical members 1A-D are attached to the bottom of shelf 5 and support it) and a top shelf (shelf 5, AMF), wherein at least one pair of the vertical members of the packaging shelf arrangement are shared with the shelf rack (vertical members 1A-D, AMF; the vertical members A-D are shared by the shelf rack and the packaging shelf arrangement), and wherein the top shelf of the packaging shelf arrangement provides a flat packaging surface (as shown in AMF, shelf 5 is flat and may be used as packaging surface); a second shipping container support unit attached to the packaging shelf arrangement (attachment 6, AMF; as shown in AMF, attachment 6 is attached to the top of shelf 5 and includes shipping container support units at the top of the attachment where the shipping containers are supported on the top shelf), and wherein the second shipping container support unit is configured to hold a plurality of shipping containers of a second size different than the first size (attachment 6, AMF; as shown in AMF, the attachment 6 is configured to hold a plurality of shipping containers of a second size different than the first size, e.g., the containers in the top left of attachment 6 is a different size than the containers of a first size, i.e., bags) and wherein the second shipping container support unit is further configured to hold a plurality of shipping containers of a third size different than the first size and the second size.

Global Equipment fails to explicitly disclose a frame comprised of aluminum; wherein the top shelf of the shelf rack is perforated; a first handle attached to the frame, wherein the first handle comprises two separate mirrored portions, and wherein the first handle is curved in at least two dimensions; wherein the first shipping container support unit is repositionable; at least two accessory support units attached to the shelf rack, the two accessory support units comprising at least two different configurations, wherein at least one of the accessory support units comprises a printer holder; a first shipping container support unit attached to the shelf rack, the first shipping container support unit configured to hold a plurality of shipping containers of a first size, wherein the first shipping container support unit comprises a pair of bag hooks; wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks; and a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension; a weight scale coupled to a wireless communication module.

Amazon teaches a picking and packaging cart (Abstract) wherein the frame is comprised of aluminum (Para. [0014]; the cart includes "a frame 103 constructed out of aluminum").

Treston teaches a packaging cart (PP. 17-18; multicart, as shown in detail on p. 18, is a packaging cart configured to hold packaging materials while a user packages items on a surface, as shown on p. 17) comprising a first handle attached to the frame (P. 18; the handle is shown just below tablet bracket 6 and it is attached to the frame, i.e., the vertical members supporting the shelves and accessory supports) wherein the first handle is curved in at least two dimensions (P. 18; as shown on P. 18, the handle is curved in at least two dimensions, i.e., the x and y axes) and at least two accessory support units attached to the shelf rack (tablet holder 6, roll holder set 8, document holder 11, and equipment tray 12, P. 18; as shown on p. 18, the multicart includes many accessory support units

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for holding accessories such as a tablet, rolls of packaging material, documents that have information about the item being packaged, and other equipment), the two accessory support units comprising at least two different configurations (P. 18; the accessory support units each have a different configuration, e.g., the tablet holder 6 is a different configuration than the roll holder 8); and wherein the weight scale is integrated into the top shelf of the packaging shelf arrangement (P. 6; in the image in the top right of p. 6, a top shelf of a packaging shelf arrangement is shown with a weight scale integrated).

Ditges teaches a picking and packaging cart (Abstract) comprising a shelf rack (cart 10; Figs. 1-2; Para. [0022]; the cart 10 includes a rack of shelves 14, 16, and 18) a first shipping container support unit attached to the shelf rack (bag holders 94, Figs. 1 and 2; Para. [0028]; the bag holders 94 are attached to the top shelf 14 and support containers such as bags), the first shipping container support unit configured to hold a plurality of shipping containers of a first size (Figs. 1-2; Para. [0028]; the bag holders 94 are configured to hold a plurality of bags of a first size) wherein the first shipping container support unit comprises a pair of bag hooks (bag holder 94, Figs. 1 and 2; Para. [0028]; the bag holders 94 are a plurality of bag hooks, as can be seen in Figs. 1 and 2). and at least one of the accessory support units comprises a printer holder (printer base 102, Figs. 1 and 2; Para. [0029]; the printer base 102 supports a printer 104 that prints labels to be attached to the totes 70 and bags 96).

Hironaka teaches a picking cart (cart 1) wherein the first handle comprises two separate mirrored portions (handles 9, Fig. 1; Para. [0018]; the picking cart includes handles 9 that two separate handles that are mirrored, as shown in Fig. 1).

In general, the prior art of record, individually or in combination, do not teach wherein the top shelf of the shelf rack is perforated, wherein the first shipping container support unit is repositionable, wherein the second shipping container support unit is disposed beneath the top shelf of the packaging shelf arrangement, wherein the second shipping container support unit is repositionable by sliding, wherein the second shipping container support unit comprises two pairs of bag hooks; and a pair of secondary handles, each of the secondary handles disposed on one of the shared vertical members, wherein each of the secondary handles is curved in at least one dimension and a weight scale coupled to a wireless communication module.

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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Analyst Modified Figure

