8548003

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

November 25, 2024

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: ***17/876,492***
FILING DATE: ***July 28, 2022***
PATENT NUMBER: ***11577771***
ISSUE DATE: ***February 14, 2023***

Certified by

Katherine Kelly Vidal

Performing the Functions and Duties of the
Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office

EVENFLO ET AL. EX1021

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Jon Hee LEE	Nonprovisional Application Number (if known):	
Title of Invention:	REMOVABLE SEAT ATTACHMENT FOR A STROLLER		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Umar R. Bakhsh/	Date 2022-07-28
Name (Print/Typed) Umar R. Bakhsh	Practitioner Registration Number 67,307

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☑ *Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jon	Hee	LEE	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Highwood	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	228 S. Central Avenue		
Address 2			
City	Highwood	State/Province	IL
Postal Code	60040	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Megan		ROE	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Kalamazoo	State/Province	MI	Country of Residence	US

Mailing Address of Inventor:

Address 1	4029 Heights Lane		
Address 2			
City	Kalamazoo	State/Province	MI
Postal Code	49008	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Stacy	Noel	SIMPSON	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

City	Portage	State/Province	MI	Country of Residence	US

Mailing Address of Inventor:

Address 1	6035 Chablis Lane		
Address 2			
City	Portage	State/Province	MI
Postal Code	49024	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mark		ZEHFUSS	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Glen Allen	State/Province	VA	Country of Residence	US

Mailing Address of Inventor:

Address 1	10804 Cherry Hill Drive		
Address 2			
City	Glen Allen	State/Province	VA
Postal Code	23059	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	134811		
Email Address	patentdocket@eversheds-sutherland.com	Add Email	Remove Email
Email Address	umarbakhsh@eversheds-sutherland.us	Add Email	Remove Email

Application Information:

Title of the Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER		
Attorney Docket Number	34757-2680	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	18	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	134811		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16903292	2020-06-16

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16903292	Continuation of	15912901	2018-03-06	10730543	2020-08-04
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15912901	Continuation of	15225326	2016-08-01	9944305	2018-04-17
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
15225326	Claims benefit of provisional	62311224			2016-03-21
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15225326	Continuation in part of	14597420	2015-01-15	9403550	2016-08-02
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14597420	Continuation of	14261558	2014-04-25	8955869	2015-02-17
Prior Application Status	Abandoned				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
14261558	Continuation of	12631375			2009-12-04
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
12631375	Claims benefit of provisional	61119920			2008-12-04

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
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Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[j] (if applicable)

Remove

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	
If the Applicant is an Organization check here.	☒
Organization Name	Baby Jogger, LLC

Mailing Address Information For Applicant:

Address 1	6655 Peachtree Dunwoody Road		
Address 2			
City	Atlanta	**State/Province**	GA
Country	US	Postal Code	30328
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	Baby Jogger, LLC

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	6655 Peachtree Dunwoody Road		
Address 2			
City	Atlanta	**State/Province**	GA
Country i	US	Postal Code	30328
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Umar R. Bakhsh/			Date (YYYY-MM-DD)	2022-07-28
First Name	Umar	Last Name	Bakhsh	Registration Number	67307

Additional Signature may be generated within this form by selecting the Add button.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2680
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. Patent Application No. 16/903,292, filed June 16, 2020, which is a continuation of U.S. Patent Application No. 15/912,901, filed March 6, 2018 and issued as U.S. Patent No. 10,730,543, which is a continuation of U.S. Patent Application No. 15/225,326, filed August 1, 2016 and issued as U.S. Patent No. 9,944,305, which both (i) claims the benefit of U.S. Application No. 62/311,224, filed March 21, 2016, and (ii) is also a continuation-in-part of U.S. Patent Application No. 14/597,420, filed January 15, 2015 and issued as U.S. Patent No. 9,403,550, which is a continuation of U.S. Patent Application No. 14/261,558, filed on April 25, 2014 and issued as U.S. Patent No. 8,955,869, which is a continuation of U.S. Patent Application No. 12/631,375, filed December 4, 2009 and issued as U.S. Patent No. 8,474,228, which claims the benefit of U.S. Application No. 61/119,920, filed December 4, 2008, the contents of which are all incorporated herein by reference.

TECHNICAL FIELD

Embodiments disclosed herein are generally related to children's stroller systems and more particularly to apparatuses and methods for a removable seat attachment for a stroller that is capable of supporting a seat including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier.

BACKGROUND

Parents or guardians with multiple young children may have difficulty transporting their children from place to place. Children are slow, easily distracted and, therefore, may lag behind. In response, many parents and/or guardians have purchased double seat strollers allowing the parent or guardian to push two children simultaneously and thus allow them to more efficiently run errands, take walks, or jog. As such, a double seat stroller allows the parent or guardian with multiple young children more freedom than they would have with only a single seat stroller.

However, permanently fixed double seat strollers also have certain disadvantages. Double seat strollers are substantially larger (wider and/or longer) than single seat strollers and are, therefore, more difficult to maneuver through doorways and down aisles in stores. While, the

benefits of being able to accommodate two children at one time in a double seat stroller typically offset these disadvantages, when the parent or guardian has only one child with them, the benefits of the double seat stroller are not realized but the disadvantages still exist.

Stroller manufacturers have attempted to solve this problem by providing an adjustable stroller that can be modified from having a single seat to having two seats by providing attachments that provide a second seat for the second child that hangs under and slightly behind the seat of the single seat stroller. In other embodiments, the second seat can be attached to a seat attachment placed further forward in the stroller. The current attachment mechanisms can suffer from several drawbacks. These drawbacks include being permanently affixed to the stroller frame and taking up unnecessary space or creating a safety hazard for children not in the stroller when the second seat is not attached to the stroller. In addition, the covers for the seat attachments, for covering a portion of the seat attachment mechanism when not in use, are detachable and can be easily lost when the seat attachment is in use.

BRIEF DESCRIPTION OF THE EXAMPLE DRAWINGS

For a more complete understanding of the present disclosure and certain features thereof, reference is now made to the following description, in conjunction with the accompanying figures briefly described as follows:

Figure 1 presents a side elevation view of a single stroller apparatus according to one example embodiment of the disclosure.

Figure 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure.

Figure 3 presents a side elevation view of a combination of the single stroller of Figure 1 attached to the seat attachment of Figure 2 according to one example embodiment of the disclosure.

Figure 4 presents a perspective view of a seat attachment capable of supporting a car seat on an attachment of Figure 2 according to one example embodiment of the disclosure.

Figure 5 presents a side elevation view of a combination of the single stroller of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one example embodiment of the disclosure.

Figure 6A presents a view of an accessory attachment for supporting an accessory on a

stroller, while Figure 6B presents a view of a bag or purse for attaching to the accessory attachment of Figure 6A according to one example embodiment of the disclosure.

Figure 7 presents a perspective view of an attachment for supporting a seat comprising one wheel according to one example embodiment of the disclosure.

Figures 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters according to one example embodiment of the disclosure.

Figure 9 presents a perspective view of one version of a stroller with left and right attachment frame members for attaching a second seat according to one example embodiment of the disclosure.

Figure 10 presents a front elevation view of an attachment frame member according to one example embodiment of the disclosure.

Figure 11 is a partial perspective view of the stroller showing the seat attachment housing according to one example embodiment of the disclosure.

Figure 12 is a partial perspective view of the seat attachment housing according to one example embodiment of the disclosure.

Figures 13A-C are partial perspective views of the removable seat attachment adapter removably coupled to the seat attachment housing according to one example embodiment of the disclosure.

Figures 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing according to another example embodiment of the disclosure.

DETAILED DESCRIPTION OF THE EXAMPLE EMBODIMENTS

Example embodiments of the invention now will be described more fully hereinafter with reference to the accompanying drawings, in which example embodiments are shown. The concept disclosed herein may, however, be embodied in many different forms and should not be construed as limited to the exemplary embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. Like numbers refer to like, but not necessarily the same, elements throughout.

The example embodiments described herein and shown in the figures is described with reference to an infant or child's stroller that can be configured to adjust from a single seat stroller to a multi-seat stroller. While the example embodiments will generally be described with reference to adding or removing seats from the stroller, the reference to seats is for example purposes only, as the seat or portion that can be added or removed from the stroller can include, but is not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier. Each of the stroller seat, baby seat, bassinet, pram, car seat, and/or baby carrier should individually be read as an alternative embodiment to the removable/added infant or child's stroller seat described below.

Certain dimensions and features of the example adjustable stroller are described herein using the term "approximately." As used herein, the term "approximately" indicates that each of the described dimensions is not a strict boundary or parameter and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "approximately" in connection with a numerical parameter indicates that the numerical parameter includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit.

In addition, certain relationships between dimensions of the adjustable stroller and between features of the adjustable stroller are described herein using the term "substantially." As used herein, the terms "substantially" and "substantially equal" indicates that the equal relationship is not a strict relationship and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "substantially" or "substantially equal" in connection with two or more described dimensions indicates that the equal relationship between the dimensions includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit of the dimensions. As used herein, the term "substantially constant" indicates that the constant relationship is not a strict relationship and does not exclude functionally similar variations therefrom. As used herein, the term "substantially parallel" indicates that the parallel relationship is not a strict relationship and does not exclude functionally similar variations therefrom.

As discussed above, parents or guardians may find themselves in a situation wherein it is more convenient to transport two children in a stroller, but at the same time find it inconvenient to

have both a single stroller and double stroller. Embodiments of the seat attachment solve this problem. In one aspect, an embodiment of the seat attachment for a stroller is capable of converting a single stroller into a double stroller. The seat attachment may support a seat such as, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. Therefore, the parent or guardian does not require both a single stroller and a double stroller. A stroller configured to receive a seat attachment for converting a single stroller into a double stroller provides convenience to the user. The single stroller may be connected to a double stroller by attaching the seat attachment to the single stroller and then attaching the second seat. As such, an embodiment of the seat attachment for converting a single stroller into a double stroller can include at least one connector portion capable of connecting to a stroller frame and a seat support element capable of supporting a seat.

Figure 1 presents a side elevation view of a single stroller apparatus 10 according to one example embodiment of the disclosure. Referring to Figure 1, it shows only one side of the single stroller 10, however, most components include a complementary component on the other side of the single stroller but are not shown in Figure 1. The example single stroller 10 includes a frame 12 that supports a seat 13. The frame 12 may optionally include at least one, and in certain embodiments preferably two, folding mechanisms 16 that allow the stroller 10 to be folded to a more convenient size for storing or transporting the stroller 10.

In the example embodiment of Figure 1, the seat 13 is shown as a typical stroller seat. However, other types of seats may be used in a single stroller. The seat 13 may be permanently affixed to the frame 12 or releasably connected, such that it is capable of being removed and substituted with a different seat. As used herein, "releasably connected" or "releasably attached" means the connection is not a permanent connection and that the connection is capable of being connected and disconnected by the user of the stroller 10 without requiring special tools or special skills. Releasable connections include, but are not limited to, buttons, snaps, friction fittings, interference fits, threaded connections, locking tabs, keyed connections, other fasteners, or the like. The frame 12 is supported on a pair of back wheels 14 and a pair of front wheels 15. In this example embodiment, the back wheels 14 are fixed and do not swivel or pivot on the frame 12 while the pair of front wheels 15 pivot to make turning the single stroller 10 easier and more convenient. Though, pivoting wheels may be preferred in certain strollers, strollers with fixed non-pivoting wheels are also common and considered as an option as part of this disclosure. In

certain example embodiments, the single stroller 10 does not require pairs of front 15 or rear 14 wheels and either the front pair of wheels 15 or the back pair of wheels 14 may be substituted with a single wheel. In certain example embodiments, the single stroller 10, including umbrella strollers, jogging strollers, all-terrain strollers, as well as other strollers may only include one front wheel 15.

The example single stroller 10 may also include one or more seat attachments that are capable of converting any style of single stroller to a double stroller, including strollers with one or two front wheels. In one example embodiment, the stroller 10 can include two attachment portions 17. In one example, the attachment portions 17 can be positioned on or near the front of the stroller 10 to allow the seat attachment and the seat to be connected to the front portion of the stroller 10. The attachment portions 17 can allow a seat attachment such as the seat attachment for converting the single stroller 10 to a double stroller, as shown in Figure 3, to be connected to the stroller. While only one seat attachment is shown in Figure 3, the stroller 10 could typically include two seat attachments as shown in Figure 3 or one seat attachment that can include two seat support elements. In certain example embodiments, the stroller 10 can include a left side and a right side attachment portion 17. The seat attachment for the stroller 10 can further include corresponding connector portions capable of connecting to the stroller frame at the attachment portions 17. Though the seat attachment for the stroller is described in relation to a single stroller, the attachment may similarly be attached to a double stroller. As such, example embodiments of the seat attachment may therefore be used to convert a double stroller into a triple stroller, if desired.

Figure 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure. Now referring to Figures 1 and 2, the example seat attachment 20 is shown in an unlocked and folded configuration. The seat attachment 20 includes a one or more connector portions 21 capable of connecting to the attachment frame members 24, two seat attachment elements 22 capable of supporting a seat; and a wheel 23. In this example embodiment, the connector portions 21 are connected to the rear of the seat attachment 20 allowing the seat attachment 20 to be connected to the front of a stroller, such as stroller 10 shown in Figure 1. In other example embodiments, the seat attachment 20 may include more than one wheel 23, one connector portion 21, one seat support element, or combinations of these elements. In example embodiments of the stroller with one

wheel, the attachment frame member may be on the forks of the front wheel, for example.

The seat attachment 20 can include a wheel support frame 26 connecting the wheel 23 to the attachment frame member 24 of the attachment 20. Each attachment frame member 24 has a first and a second end. The first end is capable of connecting to a stroller frame and the second end can be connected to the seat support element 22. As shown in Figure 2, the seat attachment 20 can include a wheel support frame 26 that is pivotally connected to two attachment frame members 24. The wheel support frame 26 or the attachment frame 24 may span the width of the stroller between the two attachment portions 17. The pivotal connection 27 allows the seat attachment 20 to be folded and conveniently stored or transported but is not necessary for all example embodiments of the disclosure. The pivotal connection 27 can be optional and provide more convenience, however, other example embodiments of the seat attachment 20 can include a releasably connected wheel support frame or a rigid frame that may be incorporated to produce a seat attachment that has greater strength for use in situations where a stronger seat attachment may be desired, such as with all-terrain or jogging strollers, for example. The wheel support frame 26 may be connected at any point on the attachment frame 24. In certain example embodiments the wheel support frame 26 is connected to the attachment frame 24 near the connector portion 21 or near the middle of the attachment frame 24.

In certain example embodiments, the seat attachment without a wheel may include connector portion 21 or attachment frame member 24, and seat attachment member 22, for example. In this example embodiment, there may be no need for the pivotal connection 27, wheel support frame 26, sliding connector 25, or wheel 23.

The seat attachment 20 can also include a folding mechanism that includes a sliding connector 25 connected to a first end of a strut 28. A second end of the strut 28 can be pivotally connected to wheel support frame 26. In such an embodiment, the sliding connector 25 may be moved between a first position and a second position on the attachment frame member 24. As the sliding connector 25 is moved, the strut 28 pushes the wheel support frame 26 from an in-use position to a storage position. The storage position is more compact as shown in Figure 2. In addition, certain example embodiments of the seat attachment 20 can also include a locking mechanism 29 that is capable of securing the seat attachment 20 to a stroller, such as stroller 10 shown in Figure 1. The locking mechanism 29 can be engaged by moving the sliding connector 25 to the in-use position, in which the wheel support frame 26 and wheel 23 are extended. In

certain example embodiments, the wheel 23 of the seat attachment 20 is pivotally connected to the connector portion 21 and when the wheel 23 is in the in-use position the releasable connection is locked and when the wheel 23 is moved to the storage position, the releasable connection is unlocked allowing the seat attachment 20 to be removed from stroller 10. The seat attachment 20 may be stored and the stroller 10 may be conveniently used as a single stroller. As designed, the seat attachment 20 may be reconnected to the stroller 10 for use as a double stroller when needed. The seat attachment portion may be secured into position on the stroller frame and a locking mechanism may be used with an embodiment with or without the wheel. Either the seat attachment or the stroller frame can include a locking mechanism for securing the stroller and seat attachment together. The locking mechanism may be any mechanism capable of securing the components together during use and may be a friction locking device, threaded connection, peg in a hole, or an interference locking device such as a pin in a hole, for example. As shown in the example embodiment of Figure 2, the locking mechanism 29 pivots with wheel support frame 26 as the seat attachment 20 is moved from an unfolded position to a folded position. The locking mechanism 29 may slide into a hole or notch in the attachment frame member 24 of the stroller 10 shown in Figure 1. As such, the seat attachment 20 may be attached to the stroller 10 by positioning the attachment (connector) portion 21 of the seat attachment 20 in the slot 18 of the attachment portion 17 of the stroller 10. The sliding connector 25 may be moved to the in-use position, the wheel support frame is moved, and the locking mechanism 29 is positioned into the locking slot 19 of the stroller 10.

In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 10 of Figure 1 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 3. In other example embodiments, the seat attachment 20 may include any type of connector portion having any geometric or non-geometric shape. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example. Other attachment mechanisms may be utilized to connect the seat attachment to the stroller 10 such as, but not limited to, a U-shaped bracket, a U-bolt, a pipe clamp, O-shaped bracket, screw, bolt, or other clamping or attachment means. The attachment frame member 24 of the stroller 10 can have a

complimentary and/or cooperating shape that allows the connector portion 21 to be secured to the attachment portion of the stroller.

Figure 3 presents a side elevation view of a combination of the single stroller 10 of Figure 1 attached to the seat attachment 20 of Figure 2 according to one example embodiment of the disclosure. Referring to Figure 3, the seat attachment 20 removably coupled to the single stroller 10 to form a double stroller. The double stroller configuration is shown with two stroller seats 13 in an inline configuration, though the other configurations, such as a stroller seat and a bassinet or a pram may also be supported on the double stroller. Further, the seat support element 22 of the seat attachment 20 may be capable of supporting the front stroller seat 13 in either a forward-facing or backward-facing position.

The example embodiment of the stroller 10 in Figure 3 is shown only as an example of one type of stroller, the frame of the stroller 10 may be any of many possible configurations. Example embodiments of the seat attachment accessory may be configured to be used on any such configuration of a stroller. For example, in another example embodiment, the baby stroller may not include two front wheels, may not include a folding mechanism or may include only one folding mechanism. In addition, the baby stroller may include additional features not included in baby stroller 10. For example, the stroller may optionally include fixed front wheels, an entirely different frame configuration, or a storage basket underneath the seat of the stroller.

The seat support member may be any configuration capable of supporting the seat on the seat attachment 20. Figure 4 presents another example embodiment of a seat support member 40 for use with a car seat or other baby seat according to one example embodiment of the disclosure. Now referring to Figure 4, the seat support member 40 can include a main support 41. The main support 41 can include a cradle for supporting a central portion of the seat. Another portion of the seat may rest against support bar 42. In this example, the support bar 42 may be adjusted to accommodate seats of different shapes and sizes. The support bar 42 may be slid within the aperture 43 and locked in place when the support bar 42 is in the desired position to support a certain seat. The seat is, therefore, supported on two main supports 41 and the support bar 42. The seat may be further secured in the seat attachment member 40 by wrapping belts 44 and 45 around the seat and locking the belts in this position with a buckle or other securing means.

Figure 5 presents a side elevation view of a combination 50 of the single stroller 10 of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one

example embodiment of the disclosure. Referring to Figure 5, the combination 50 includes the stroller 10 and the seat attachment 51. In one example, the seat attachment 51 is a tricycle-like attachment that includes a connector portion 52, a frame 53 with a seat support element 56, a seat 57, and a wheel 55. The tricycle-like attachment may be attached to stroller 10 to allow one child to be pushed in the stroller 10 and one child to ride the seat attachment 51. The seat attachment 51 may be other shapes also such as cars, trucks, or animal shapes, for example.

In certain example embodiments, the stroller 10 can include an additional accessory attachment portion 58. The accessory attachment portion 58 attaches to a frame member of the stroller 10. An embodiment of the accessory attachment portion 58 is shown on Figure 6A. This embodiment is particularly useful for attaching a bag or purse 64, as shown in Figure 6B, to the stroller 10.

When using a stroller, parents or guardians typically carry other items, such as purses, grocery bags, cell phones, diapers, cleaning wipes, or other personal or baby related items. Some strollers have bottom storage baskets for placing such items. However, these storage baskets can be inconvenient to access or some light weight strollers do not include such storage baskets. Therefore, users of the stroller may hang purses or shopping bags on the handle of the stroller. This is convenient in that the bag is easy to access, but the weight of the bag on the handle may cause the stroller to be unbalanced and increase the tendency of the stroller to topple backwards. A heavy bag hung from the handle of a stroller may cause the stroller to tip backwards even with a child in the seat. The problem is worse if the stroller is facing uphill, on uneven terrain, being pushed up a curb, or occupied by a small child. The accessory attachment 58 may be attached to the frame of the stroller 10 by any of the clamping or attachment methods described above, for example. Preferably, the accessory attachment 58 is attached near the center of gravity of the stroller 10 to avoid creating an unbalanced condition of the stroller 10. As shown in Figure 6A, the accessory attachment 58 is connected to stroller frame 12 of stroller 10 near the folding mechanism. Certain example embodiments of the accessory attachment 58 include a first end 61 for connecting to a stroller frame and a distal second end 62 for releasably connecting to the accessory 64. The first end 61 can include an aperture 64 that may be connected to frame 12 of the stroller 10. In certain example embodiments, the aperture 64 is on an angle, such that when the axis of the accessory attachment portion 58 is horizontal or substantially horizontal. The accessory attachment 58 may, optionally, include a rib 63 for securing the accessory 64 to the

accessory attachment 58. The rib 63 may be replaced with any other locking element or securing means including a friction fitting, a screwed fitting, or interference fitting, for example.

One example of an accessory 64 for attaching to an accessory attachment 58 is shown in Figure 6B. The accessory 64 in this example is a bag or purse. The accessory 64 can include an attachment portion 65 that is capable of being secured to the attachment portion 62 on the accessory attachment 58. The accessory 64 may be secured on stroller 10 by securing attachment portion 65 to attachment portion 62. The attachment portion 65 can slide over the cylindrical attachment portion 62 of accessory attachment 58. The attachment portion 65 may include an interior annular recess that receives the rib 63 securing the accessory 58 to the stroller 10. The accessory 64 is thus removably coupled to the stroller 10 in a center portion of the stroller as viewed from the side. Therefore, the bag or purse 64 is conveniently secured to stroller 10 while not contributing to an unbalanced condition of the stroller 10.

Figure 7 presents a perspective view of an attachment 70 for supporting a seat comprising one wheel 73 according to one example embodiment of the disclosure. Referring now to Figure 7, the example seat attachment 70 can include two seat attachment members 71, two connector portions 72, and a wheel 73. The two seat attachment members 71 and the wheel 73 can be disposed or otherwise positioned in a triangular relationship. In certain example embodiments, the wheel 73 provides additional stability to a stroller 10 connected to the seat attachment 70 if a heavier child is placed in a seat attached to the seat attachment members 71.

Figures 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters, according to another example embodiment of the disclosure. Referring now to Figures 8A-H, the example stroller apparatus 80 can include a stroller frame 81 capable of supporting one or more stroller seats 85, 86. In one example embodiment, the stroller frame 81 can be made of one or more pieces fixedly coupled and/or removably coupled to one another. The stroller frame 81 can include portions that are hollow tubing and other portions that are solid core tubing and can be made from metal, plastic, or other materials known in the art.

In one example embodiment, the stroller frame 81 can include a pair of front wheel support frames 81a (only the left front wheel support frame is shown), a pair of back wheel support frames 81b (only the left back wheel support frame is shown), a pair of upper tube support frames 81c (only the left upper tube support frame is shown), a handle portion 81d having a first end coupled

to the left upper tube support frame 81c and a distal second end coupled to the right upper tube support frame 81c, and foot rest support frame 81f having a first end coupled to the left front wheel support frame 81a (either directly or via the first seat attachment housing 1105 discussed below in Figure 11) and a distal second end coupled to the right front wheel support frame 81a (either directly of via the second seat attachment housing 1110 discussed below in Figure 11). In certain example embodiments, each front wheel support frame 81a can be fixedly coupled or rotatably coupled to its corresponding upper tube support frame 81c. Further, in certain example embodiments, the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be made from a single unitary piece of material, such as a single piece of bent, hollow-core metal or plastic tubing. Alternatively, each of the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be separate pieces of the same or different material that are coupled to one another.

The exemplary stroller frame 81 can also include a pair of folding mechanisms 81e (only the left folding mechanism is shown). In one example, each folding mechanism 81e can be coupled, either directly or indirectly to the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c on the corresponding side (left and right) of the stroller 80. In certain example embodiments, one or more of the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c are rotatably coupled and rotatably adjustable about one or more axes defined through the folding mechanism 81e. As such, in certain example embodiments, the folding mechanism 81e allows the stroller 80 to be folded into a more compact size for storing or transportation. Figure 8B shows the stroller 10 in a folded configuration.

The example stroller 80 can also include at least one front wheel 82 coupled directly or indirectly (*e.g.*, via one of the seat attachment housings 1105, 1110, as shown in Figure 11) to the stroller frame 81. Figure 8B presents an example embodiment wherein the stroller 80 can include two front wheels 82, one front wheel 82 being coupled to the stroller 80 adjacent the left front wheel support frame 81a and the second front wheel 82 being coupled to the stroller 80 adjacent the right front wheel support frame 81a. The example stroller 80 can also include at least one rear wheel 83 coupled directly or indirectly to the stroller frame 81 (*e.g.*, a corresponding back wheel support frame 81b). Figure 8B presents an example embodiment wherein the stroller 80 can

include two back wheels 83, one back wheel 83 being coupled to the left back wheel support frame 81b and the second back wheel 83 coupled to the right back wheel support frame 81b.

The stroller 80 can also include a first stroller seat 86 either fixedly or removably coupled to the stroller frame 81. For example, the first stroller seat 86 can include a left connector on the left side of the first stroller seat 86 and a right connector on the right side of the first stroller seat 86 to removably couple and decouple the first stroller seat from the stroller frame 81. In one example, each of the left connector and right connector can be cavities in the first stroller seat 86 and can be configured to receive at least a portion of a corresponding seat attachment adapter (*e.g.*, a bayonet connector) therein. In another example embodiment, the left connector and the right connector can each be tabs or slots that are configured to be coupled to corresponding slots or tabs along the stroller frame 81.

The stroller 80 can also include a removable seat attachment adapter 84 that is removably coupled to the frame 81 such that the seat attachment adapter 84 can be decoupled from the frame 81 and stored when a second stroller seat is not being used with the stroller 80. In one example embodiment, each removable seat attachment adapters can be coupled to the frame by coupling the adapter 84 into a seat attachment housing disposed along the frame 81. In one example, the seat attachment housing (such as that described in Figures 11-14C below) can be integrally formed with all or a portion of the stroller frame (*e.g.*, integrally formed with front wheel support frame 81a). Alternatively, the seat attachment housing can be a separate apparatus that is coupled to the frame 81 or incorporated into the frame 81 by coupling multiple pieces of the frame 81 together. The frame 81 and each seat attachment housing can be made from the same or different materials, including, metals and plastics.

Though it cannot be seen in the side view of Figure 8A, a typical embodiment of the stroller 80 will include at least two removable seat attachment adapters 84 (at least one along each left and right side of the stroller 80 along the stroller frame 81). For example, at least one removable seat attachment adapter can support each lateral side of the second stroller seat 85. In certain example embodiments, each of the removable seat attachment adapters 84 may be made up of one piece or multiple parts. The removable seat attachment adapters 84 may be of any design capable of securely supporting a seat on the stroller. In one example, the removable seat attachment adapter 84 is configured to have a first end that is removably coupled to the frame 81 and/or seat attachment housing and a distal second end that is configured to be removably coupled to a second stroller

seat 85. The removable seat attachment adapter 84 is designed to be capable of supporting the second stroller seat 85 in front of the first stroller seat 86. The stroller 80 may also include a storage basket 87.

In certain examples, each of the removable seat attachment adapters 84 removably couples to the second stroller seat 85 at a vertical height that is substantially below the vertical height that the first stroller seat 86 attaches to the stroller frame 81, thereby positioning the second stroller seat 85 at a vertical position that is substantially below the vertical position of the first stroller seat 86 when both the first stroller seat 86 and the second stroller seat 85 are coupled to the stroller 80. The difference in vertical positioning of the second stroller seat 85 as compared to the first stroller seat 86 provides improved access to the first stroller seat 86 from the front of the stroller 10 when both stroller seats 85, 86 are coupled to the stroller 80. Further, in certain example embodiments, the first stroller seat 85 can be positioned substantially over the front wheels 82 so that the stroller 80 remains stable. For example, the second stroller seat 85 can be located substantially over the front wheels 82 and the first stroller seat 86 can be located substantially over the rear wheels 83. In addition, the seats 85, 86 can be positioned such that the center of gravity of the stroller 80 is between the front 82 and rear 83 wheels.

In certain example embodiments, the removable seat attachment adapter 84 is capable of supporting a second stroller seat 85 such that a child in the second stroller seat 85 is substantially above the frame 81 of the stroller 80 that is substantially adjacent to the connection point of the second stroller seat 85. This positioning of the second stroller seat 85 with respect to the frame 81 provides easier access to the second stroller seat 85, does not block access to the storage basket 87, allows more versatile configurations of the seats 85, 86, allows more variety of seats 85, 86 to be attached to the frame 81, and allows the parent or guardian to more easily monitor and see the child in each stroller seat 85, 86.

The example stroller of Figure 8A can also include the first stroller seat 86. In certain example embodiments, the first stroller seat 86 can be located generally closer to the handle portion 81d than to the front wheels 82. The first stroller seat 86 may be fixedly coupled or removably coupled to the frame 81. In certain example embodiments wherein the first stroller seat 86 is removably coupled to frame 81, the first stroller seat 86 may be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa, as shown, for example, in Figures 8B-8C. In addition, the second stroller seat 85, when coupled to the corresponding removable seat

attachment adapters 84, can be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa.

Figures 8C-8H present additional examples of combinations for a variety of types of stroller seats that can be removably coupled to the stroller 80. For example, in Figure 8D, the second stroller seat 85 can be replaced by an infant carrier 93 that can be removably coupled to each of the at least two removable seat attachment adapters 84 and the first stroller seat 86 can be coupled to the stroller in a forward-facing position. In another example, as shown in Figure 8E, the first stroller seat 86 can be replaced by a child carrier 91 that may be coupled to the frame 81 and positioned in the first seat position and the second stroller seat 85 can be coupled to the stroller 80 by way of the at least two removable seat attachment adapters 84 in a rearward-facing position. In yet another example, as shown in Figure 8F, the child carrier 91, of Figure 8E, can be replaced with a pram 92 that is removably coupled to the stroller 80 in the first seat position. In still another example configuration, as shown in Figure 8G, two child carriers 91 may be removably coupled to the stroller frame 81. For example, the front child carrier can be coupled to the stroller by way of each of the at least two removable seat attachment adapters 84. In another example configuration, one of the child carriers 91 may be replaced with a pram or bassinet 92, as shown in Figure 8H.

In certain example embodiments, the stroller 80 may also include a second set of removable seat attachment adapters 89 removably coupled to the frame 81 (or another pair of seat attachment housings substantially similar to those 1105, 1110 described below) along the upper tube support frame 81c. The second set of removable seat attachment adapters 89 may be substantially the same as or exactly the same as the removable seat attachment adapters 84 described herein and may be coupled to the frame 81 (or corresponding seat attachment housings) in substantially the same manner as the removable seat attachment adapters 84, as discussed in more detail below. The second set of removable seat attachment adapters 89 can include at least two adapters (at least one along each left and right side of the stroller 80) for removably coupling and decoupling the first stroller seat 86 or any other form of seat described herein to the stroller frame 81 or corresponding seat attachment housing.

In one example embodiment, as shown in Figures 9-10, the stroller 80 can include one or more, and preferably two, seat support elements 84. The seat support element 84 is connected to and can be removably coupled to the stroller 80 front wheel support frame 81a. In certain example

embodiments, the seat support element 84 is adjacent to the front wheel support portion 81a of frame 81. Alternatively, the seat support element 84 is simply forward of and positioned at a vertical level lower than the attachment point for the first stroller seat 86 (Figure 8A) on the stroller 80. The seat support element 84 is capable of supporting a second stroller seat 85 in front of the stroller seat 86 (see Figure 8A). This provides convenience and versatility to a user of the stroller 80. Seat support element 84 may be fixedly attached or removably attached to front wheel support portion 81a. In certain example embodiments, the front seat 85 may be positioned substantially over the front wheels 15 so the stroller 80 remains stable. Preferably, the seats 85, 86 should be positioned such that the center of gravity of the stroller 80 is between the front 15 and rear 14 wheels. If not an additional wheel may be placed on the attachment as previously described. The seat support element 84 can further include a seat connector 88. In one example, the seat connector 88 can be disposed along a top end of the seat support element 84. The example seat connector 88 may be a multipurpose general connector that allows different seats to be interchanged on the seat support element 84. Any style seat may be configured to connect to the seat connector 88, such as but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. As shown in Figure 9, the seat support element 84 can also include a connector portion 21. The connector portion 21 is capable of connecting the seat attachment to the frame 81 via the attachment portion 17 and the slot 18.

In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 80 of Figure 9-10 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 8A. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example.

Figure 11 is a partial perspective view of the stroller 80 showing a seat attachment housing 1105 according to one example embodiment of the disclosure. Referring now to Figures 8A and 11, the example stroller 80 can include a first seat attachment housing 1105 and the second seat attachment housing 1110. The first seat attachment housing 1105 can include a first end 1105a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1105a to a first end of the left front wheel support frame 81a. For example, the left front wheel support frame 81a

can have a substantially circular or oval cross-section and the cavity of the first end 1105a can have a corresponding circular or oval cross-section to slidably receive a portion of the left front wheel support frame 81a into the cavity. In one example, the left front wheel support frame 81a can be held in the cavity of the first end 1105a by a press fit hold. Alternatively, a spring-loaded button on the left front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the first seat attachment housing 1105.

The first seat attachment housing 1105 can also include a second end 1105b that includes a second cavity for coupling one of the front wheels 82 to the first seat attachment housing 1105. The wheel 82 may be removably coupled to the second end 1105b of the first seat attachment housing 1105 by a press fit hold. Alternatively, a spring-loaded button 82a on the front wheel apparatus 82 can be positioned into the cavity of the second end 1105b and positioned into a corresponding opening 1115 along one of the sides of the first seat attachment housing 1105. In one example embodiment, the first seat attachment housing 1105 can include an attachment arm 1120 extending off of one side of the first seat attachment housing 1105 in a generally orthogonal direction to the longitudinal axis of the housing 1105. The attachment arm 1120 can include a free end 1105c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the first seat attachment housing 1105 to a first end of the foot rest support frame 81f. The foot rest support frame 81f may be removably coupled to the free end 1105c of the attachment arm 1120 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1105c and positioned into a corresponding opening along one of the sides of the attachment arm 1120.

The second seat attachment housing 1110 can include a first end 1110a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1110a to a first end of the right front wheel support frame 81a. For example, the right front wheel support frame 81a can have a substantially circular or oval cross-section and the cavity of the first end 1110a can have a corresponding circular or oval cross-section to slidably receive a portion of the right front wheel support frame 81a into the cavity. In one example, the right front wheel support frame 81a can be held in the cavity of the first end 1110a by a press fit hold. Alternatively, a spring-loaded button on the right front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110.

The second seat attachment housing 1110 can also include a second end 1110b that includes a second cavity for coupling one of the front wheels 82 to the second seat attachment housing 1110. The wheel 82 may be removably coupled to the second end 1110b of the second seat attachment housing 1110 by a press fit hold. Alternatively, a spring-loaded button on the front wheel apparatus 82 can be positioned into the cavity of the second end 1110b and positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110. In one example embodiment, the second seat attachment housing 1110 can include an attachment arm 1125 extending off of one side of the second seat attachment housing 1110 in a generally orthogonal direction to the longitudinal axis of the housing 1110. The attachment arm 1125 can include a free end 1110c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the second seat attachment housing 1110 to a second distal end of the foot rest support frame 81f. The second end of the foot rest support frame 81f may be removably coupled to the free end 1110c of the attachment arm 1125 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1110c and positioned into a corresponding opening along one of the sides of the attachment arm 1125.

In certain example embodiments, all or a portion of each of the seat attachment housings 1105, 1110 can be hollowed out with exterior sides. Each of the seat attachment housings 1105, 1110 can include an opening 1130 positioned along a top side of the respective seat attachment housings 1105, 1110. The opening 1130 can provide access to an adapter receiving cavity (see Figure 12) for receiving therein at least a portion of the removable seat attachment adapter 84 (see Figure 13A). Each seat attachment housing 1105, 1110 can also include a sliding door 1135. The sliding door 1135 is configured to be manually adjustable from a closed position to an open position by slidably opening the door 1135 along the top side of the seat attachment housing 1105, 1110 to provide access to the opening 1130 and adapter receiving cavity when the parent or guardian wants to insert and couple the removable seat attachment adapter 84 to the seat attachment housing 1105, 1110 and frame 81 in order to couple the second stroller seat 85 to the stroller 80. In one example, each seat attachment housing 1105, 1110 can include one or more rails either disposed above or below a top surface of the seat attachment housing 1105, 1110 that provide a guide way for slidably opening and closing the door 1135. In one example, the door 1135 can include a tab 1140 extending upward from a top surface of the door 1135 to provide a gripping area to grip the door 1135 and slide it open and closed. For example, a parent or guardian

can use a finger against the tab 1140 and apply pressure against the tab 1140 to open the door 1135 from a closed configuration to an open configuration.

The sliding door 1135 is also configured to be manually adjustable from an open configuration to a closed configuration by slidably closing the door 1135 along the top side of the seat attachment housing 1105, 1110 to prevent access to the opening 1130 and adapter receiving cavity when the second stroller seat 85 is not in use. In one example, the parent or guardian can press a finger against the tab 1140 and apply pressure against the tab 1140 to slide the door 1135 from the open configuration to the closed configuration.

Figure 12 is a partial perspective view of one of the seat attachment housings 1105, 1110 according to one example embodiment of the disclosure. Referring now to Figures 8A, 11, and 12, the door 1135 of the seat attachment housing 1105, 1110 is shown having been slid into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205. The adapter receiving cavity 1205 can have any size and shape for removably coupling a portion of a removable seat attachment adapter 84 therein. In one example embodiment, all or a portion of the cross-sectional shape of the adapter receiving cavity 1205 can be keyed or have a keyed shape 1210 and all or a portion of the removable seat attachment adapter 84 can have a corresponding outer perimeter shape such that the removable seat attachment adapter 84 can only be inserted into the adapter receiving cavity 1205 in one, proper orientation.

Figures 13A-C are partial perspective views of the removable seat attachment adapter 84 coupled to the seat attachment housing 1105 according to one example embodiment of the disclosure. Now referring to Figures 8A, 11, 12, and 13A-C, once the door 1135 has been moved into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205, a first end 84a of the removable seat attachment adapter 84 can be inserted into the adapter receiving cavity 1205. In certain example embodiments, the adapter receiving cavity 1205 can include one or more stop flanges 1315, 1320 that extend out from an inner surface of the cavity 1205 and into the cavity area to abut against a bottom side of the first end 84a of the removable seat attachment adapter 84 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205. Once the adapter 84 is inserted into the cavity 1205 and removably coupled to the seat attachment housing 1105, a stroller seat can be removable coupled to a seat connector disposed on or adjacent to the second end 84b of the removable seat attachment adapter 84. The seat connector on the second end 84b can be a multipurpose general connector that allows different seats to be

interchangeably connected to the removable seat attachment adapter 84. Any style seat may be configured to connect to the seat connector including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example.

The removable seat attachment adapter 84 can also include a stop collar 1335 disposed a predetermined distance up from the first end 84a of the adapter 84. In one example embodiment, the stop collar 1335 is sized and shaped so that it will not fit into the opening 1130 and will not fit into the adapter receiving cavity 1205 as the first end 84a of the adapter 84 is being inserted into the adapter receiving cavity 1205. The size and shape of the outer surface of the stop collar 1335, being greater than that of the outer surface of the previous portion of the first end 84a inserted into the adapter receiving cavity 1205 will contact and abut an outer surface of the seat attachment housing 1105 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205.

The removable seat attachment adapter 84 can also include a spring-loaded latching tab 1305 disposed along one side of the adapter 84 between the first end 84a and the stop collar 1335. In certain example embodiments, the spring-loaded latching tab 1305 can be spring biased into an extended position (as shown in Figure 13B) via, for example, a spring (not shown). As the adapter 84 is first being inserted into the adapter receiving cavity 1205, the width of the adapter 84 at the point of the spring-loaded latching tab 1305, is greater than the width of the cavity 1205, which causes one or more side walls of the cavity 1205 to apply a force to the spring-loaded latching tab 1305 and push it inward from the extended position towards a retracted position, thereby allowing the first end 84a of the adapter 84 to continue moving into the adapter receiving cavity 1205. When the adapter 84 is inserted into the adapter receiving cavity 1205 a sufficient distance (which can be configurable based on the design specifics on the stroller), the spring-loaded latching tab 1305 can be positioned adjacent a tab receiver 1307. The tab receiver 1307 can be a cut-out or opening along one of the side walls of the cavity 1205 that allows the tab 1305 to move back to the extended position. The tab receiver 1307 can include a tab retainer surface 1310 that abuts a top side of the tab 1305 and prevents the removable seat attachment adapter 84 from being removed from the adapter receiving cavity 1205 while the spring-loaded latch tab 1305 is in the extended position.

The removable seat attachment adapter 84 can also include a tab release button 1330 that is operatively coupled to and configured to move the spring-loaded latching tab 1305 from the extended position to the retracted position via, for example, a guide wire 1325 or other attachment

mechanism. For example, when the removable seat attachment adapter 84 is latched into the seat attachment housing 1105, a parent or guardian can grab the removable seat attachment adapter 84 and depress the tab release button 1330, causing the guide wire to pull the spring-loaded latching tab 1305 inward from the extended position to the retracted position with a force greater than the spring biasing force on the tab 1305 and allowing the parent or guardian to remove the removable seat attachment adapter 84 from the adapter receiving cavity 1205 using only a single hand. Thereby, the ease of decoupling the removable seat attachment adapter 84 from the stroller frame 81 is improved.

In addition, as shown in Figure 13B, in certain example embodiments, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of the seat attachment housing 1105 can be open 1340 to the environment. Leaving the bottom side of the cavity 1205 open 1340 to the environment helps to prevent liquid and material build-up in the cavity 1205 when the removable seat attachment adapter 84 is not coupled into the cavity 1205 by allowing the liquid and materials to pass through the cavity 1205 and out of the bottom of the seat attachment housing 1105. This is especially beneficial when the parent or guardian removes the removable seat attachment adapter 84 from the cavity 1205 but does slide the door 1135 into the closed position to close up the opening 1130.

Figures 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing 1405, 1410 according to another example embodiment of the disclosure. Referring now to Figures 8A, 11, and 14A-C, the seat attachment housings 1405, 1410 are substantially the same as the seat attachment housings 1105, 1110 described in Figures 11-13C except for as described below. Therefore, the description of the seat attachment housings 1105, 1110 in Figures 11-13C above is incorporated herein for the alternative seat attachment housings 1405, 1410, except with regard to the distinctions described below.

As shown in Figure 14C, each seat attachment housing 1405, 1410 includes an opening or open end 1130 positioned along a top side of the respective seat attachment housings 1405, 1410. The opening 1130 can provide access to an adapter receiving cavity 1205. Each seat attachment housing 1405, 1410 also includes one or more stop flanges 1315, 1320 that extend out from an interior wall 1411 of the cavity 1205 and into the cavity area. In addition, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of each seat attachment housing

1405, 1410 can have an opening or open end 1340 to the environment and with the cavity 1205 and opening 1130 provides a through-hole 1413 through the seat attachment housing 1405, 1410.

Each seat attachment housing 1405, 1410 can include a rotating door 1415 rotatably coupled to the seat attachment housing 1405, 1410. For example, the rotating door 1415 can have a fixed end that is rotatably coupled to the top side of the seat attachment housing 1405, 1410 or an interior wall 1411 of the opening 1130 or adapter receiving cavity 1205 by way of one or more hinges 1420. Alternatively, other devices may be used to allow the door 1415 to rotate from a closed configuration 1415a to an open configuration 1415b, as shown in Figure 14C. In certain example embodiments, the door 1415 and/or the rotating mechanism or hinge 1420 that the door 1415 is coupled to can be spring-biased into the closed configuration 1415a through the use of a spring or other biasing means. Spring-biasing the door 1415 into a closed configuration 1415a can help to prevent fluids and other material contaminants from entering the adapter receiving cavity 1205 when the removable seat attachment adapter 84 is not coupled into the adapter receiving cavity 1205.

When a parent or guardian wants to add a second stroller seat 85 to the stroller 80, they can insert the removable seat attachment adapter 84 into the adapter receiving cavity 1205 by pressing or applying a force with the first end 84a of the removable seat attachment adapter 84 against the top side of the rotating door 1415 with a force that is greater than the spring-biasing force. This will cause the door 1415 to rotate from the closed configuration 1415a towards the open configuration 1415b and allow the first end 84a of the removable seat attachment adapter to enter into the adapter receiving cavity 1205 and be coupled to the seat attachment housing 1405, 1410.

When the parent or guardian removes the removable seat attachment adapter 84, as described above with regard to Figures 13A-C, as the first end 84a of the removable seat attachment adapter 84 exits the adapter receiving cavity 1205 and opening 1130, the spring-bias of the hinge 1420 or door 1415 will cause the door 1415 to automatically rotate from the open configuration 1415b to the closed configuration 1415a, thereby limiting access to the opening 1130 and the adapter receiving cavity 1205 from the top side of the seat attachment housing 1405, 1410.

While the above description contains many specifics, these specifics should not be construed as limitations on the scope of the disclosure, but merely as exemplifications of the disclosed embodiments. Those skilled in the art will envision many other possible variations that are within the scope of the disclosure.

CLAIMS

1. A stroller convertible from a single seat configuration to a double seat configuration without changing its footprint, comprising:

at least two rear wheels;

only two front wheels;

a frame supported by the wheels and comprising a handle portion and left and right foldable support members extending from the handle portion towards a front end portion of the frame, the foldable support members extending in a parallel, spaced relationship and substantially within a single plane and wherein the plane runs diagonally downwards from the handle portion towards the front end portion of the frame;

a first seat releasably connected to the stroller frame at a first vertical position, the first seat being connectable to the frame in either a forward or backward facing position to form the single seat configuration; and

wherein the stroller is configured to receive an optional second seat assembly to form the double seat configuration, the second seat assembly comprising:

right and left seat attachments configured to couple to the right and left support members, respectively, at a second vertical position that is lower than the first vertical position; and

a second seat connectable to the right and left seat attachments in either a forward or backward facing position.

2. The stroller of claim 1, wherein the second seat is connectable above the two front wheels.

3. The stroller of claim 2, wherein above the two front wheels is substantially over the two front wheels.

4. The stroller of claim 3, wherein the first seat is connected to the stroller frame substantially over the two rear wheels so that a center of gravity of the stroller is between the front and rear wheels.

5. The stroller of claim 4, wherein the seat attachments have connector portions configured to connect to the right and left support members.

6. The stroller of claim 5, wherein the seat attachments have seat attachment elements configured to releasably support the second seat in either the forward or backward facing position.

7. The stroller of claim 6, wherein the right support member includes a right attachment portion and the left support member includes a left attachment portion, the right and left attachment portions configured to support the connector portions of the seat attachments.

8. The stroller of claim 7, wherein the right and left attachment portions define right and left slots configured to receive the connector portions of the seat elements.

9. The stroller of claim 8, wherein the right and left support members include a pair of tubular structures.

10. The stroller of claim 9, wherein the frame further comprises a rear wheel support portion and wherein the rear wheels are coupled to the rear wheel support portion.

11. The stroller of claim 10, wherein the rear wheel support portion is attached to the left and right foldable members.

12. The stroller of claim 11, wherein the rear wheel support portion includes a pair of parallel support members connected to the left and right foldable support members.

13. The stroller of claim 1, further comprising a folding mechanism dividing the left and right foldable members into upper and lower portions, wherein the upper portion of the left and right foldable members is adjacent the handle portion and wherein the lower portion of the left and right foldable members is adjacent to the front end portion.

14. The stroller of claim 13, wherein the front end portion is coupled to the two front wheels.

15. The stroller of claim 14, wherein the folding mechanism includes a pair of spaced apart pivots connecting the lower portion to the upper portion of the left and right foldable members.

16. A stroller convertible from a single seat configuration to a double seat configuration without changing its footprint, comprising:

at least two rear wheels;

at least two front wheels, wherein all front wheels are laterally aligned;

a frame supported by the wheels and comprising a handle portion and left and right foldable support members extending from the handle portion towards a front end portion of the frame, the foldable support members extending in a parallel, spaced relationship and substantially within a single plane and wherein the plane runs diagonally downwards from the handle portion towards the front end portion of the frame;

a first seat releasably connected to the stroller frame at a first vertical position, the first seat being connectable to the frame in either a forward or backward facing position to form the single seat configuration; and

right and left seat attachments supported by the stroller frame at a second vertical position that is lower than the first vertical position; and

wherein the stroller is configured to receive an optional second seat assembly to form the double seat configuration, the second seat assembly comprising:

a second seat connectable to the right and left seat attachments in either a forward or backward facing position and above the at least two front wheels.

17. The stroller of claim 16, wherein above the at least two front wheels is substantially over the at least two front wheels.

18. The stroller of claim 17, wherein the first seat is connected to the stroller frame substantially over the two rear wheels so that a center of gravity of the stroller is between the front and rear wheels.

19. The stroller of claim 18, wherein the seat attachments have seat attachment elements configured to releasably support the second seat in either the forward or backward facing position.

20. The stroller of claim 19, wherein the right and left support members include a pair of tubular structures.

21. The stroller of claim 20, wherein the frame further comprises a rear wheel support portion and wherein the rear wheels are coupled to the rear wheel support portion.

22. The stroller of claim 21, wherein the rear wheel support portion is attached to the left and right foldable members.

23. The stroller of claim 22, wherein the rear wheel support portion includes a pair of parallel support members connected to the left and right foldable support members.

24. The stroller of claim 16, further comprising a folding mechanism dividing the left and right foldable members into upper and lower portions, wherein the upper portion of the left and right foldable members is adjacent the handle portion and wherein the lower portion of the left and right foldable members is adjacent to the front end portion.

25. The stroller of claim 24, wherein the front end portion is coupled to the at least two front wheels.

26. The stroller of claim 25, wherein the folding mechanism includes a pair of spaced apart pivots connecting the lower portion to the upper portion of the left and right foldable members.

27. A stroller convertible from a single seat configuration to a two-seat configuration by attachment of a second stroller seat comprising a left adapter on a left side of the second stroller seat and right adapter on the right side of the second stroller seat, the stroller comprising:

a frame;

an unfolded configuration wherein a fixed wheelbase is formed between a pair of front wheels and a pair of rear wheels; and

an existing stroller seat supported by the frame adjacent a handle of the stroller at a first vertical position;

wherein the frame is configured to support the left and right adapter of the second stroller seat at a second vertical position that is lower than the first vertical position; and

wherein the frame is further configured to support the left and right adapter of the second stroller seat in either a forward or a rearward facing orientation.

28. The stroller of claim 27, wherein the frame is further configured to support the second stroller seat substantially over the front wheels.

29. The stroller of claim 28, wherein the frame supports the existing stroller seat substantially over the rear wheels so that a center of gravity of the stroller is within the fixed wheelbase.

30. The stroller of claim 27, wherein the frame defines a pair of slots each configured to receive either the left or right adapters of the second stroller seat.

ABSTRACT

Embodiments include strollers having removable seats. An example stroller may include rear wheels, front wheels, and a frame including a handle portion, a rear wheel support portion, a front wheel support portion and a folding mechanism connecting the front wheel support portion and the handle portion in both an unfolded configuration and in a folded configuration. The frame may include a stroller seat support portion positioned at a first vertical position adjacent the handle portion, and a front seat attachment configured for attachment to the front wheel support portion at a second vertical position substantially lower than the first vertical position. The front seat attachment may be configured to support the front stroller seat substantially over the front wheels so that a center of gravity of the stroller system is between the front wheels and the rear wheels.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326 Attorney Docket No. 34757-1526
Filed: August 1, 2016

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AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled **"REMOVABLE SEAT ATTACHMENT FOR A STROLLER"** (Invention) for which a non-provisional application for United States Letters Patent

☒ was filed on August 1, 2016, and accorded U.S. Application No. 15/225,326 ; or

☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Sutherland Asbill and Brennan LLP, associated with Customer No. 134811, to insert in the header above and here in

parentheses (U.S. Application No. 15/225,326 , filed August 1, 2016), this application's U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Virginia, is desirous of acquiring the entire right, title and interest in and to the Invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any

violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the application and the Invention or any improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon our heirs, legal representatives, administrators, and assigns.

CORRESPONDENCE ADDRESS

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

134811

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

Attorney Docket No. 34757-1526

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

- ☐ the attached application; or
- ☒ United States application number 15/225,326 filed on August 1, 2016; or
- ☐ PCT international application number _____ filed on _____.

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **JON HEE LEE**

Jon Hee Lee

07/28/16
Date

STATE OF Illinois
ss.
COUNTY OF Cook

This 28 day of July, 2016 before me personally came the above-named **Jon Hee Lee**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)

OFFICIAL SEAL
ANTHONY KEITH WINSTON
Notary Public - State of Illinois
My Commission Expires 08/21/2018

37061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

Attorney Docket No. 34757-1526

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

X United States application number 15/225,326 filed on August 1, 2016; or

PCT international application number _____ filed on _____.
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **MEGAN ROE**

Megan Roe

07.28.16
Date

STATE OF Michigan
ss.
COUNTY OF Kalamazoo

This 28th day of July, 2016 before me personally came the above-named **Megan Roe**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Diane L. Martin
(Notary Public)

DIANE L. MARTIN, Notary Public
State of Michigan, County of Cass
My Commission Expires 09/18/2022
Acting in the County of Kalamazoo

37061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

Attorney Docket No. 34757-1526

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

- ☐ the attached application; or
- ☒ United States application number 15/225,326 filed on August 1, 2016; or
- ☐ PCT international application number _____ filed on _____
  (We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **STACY NOEL SIMPSON**

Stacy Noel Simpson

7/25/2016
Date

STATE OF
ss.
COUNTY OF

This 25th day of July, 2016 before me personally came the above-named **Stacy Noel Simpson**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Diane L Martin
(Notary Public)

DIANE L. MARTIN, Notary Public
State of Michigan, County of Cass
My Commission Expires 09/16/2022
Acting in the County of Kalamazoo

37061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

Attorney Docket No 34757-1526

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

☐ the attached application; or

☒ United States application number 15/225,326 filed on August 1, 2016; or

☐ PCT international application number _____ filed on _____.
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: MARK ZEHFUSS

Mark Zehfuss

8/2/16
Date

STATE OF Virginia
ss.
COUNTY OF Henrico

This 2nd day of August, 2016 before me personally came the above-named **Mark Zehfuss**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

DARNELL TREVON TAYLOR
COMMONWEALTH OF VIRGINIA
REG. NO. 7508517 EXP. 8-31-18
NOTARY PUBLIC

Darnell Trevon Taylor
(Notary Public)

37061224.1

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-07-13
First Named Inventor	Jon Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6286844	B1	2001-09-11	Cone, II et al.	
	2	7475900	B2	2009-01-13	Cheng	
	3	7377537	B2	2008-05-27	Li	
	4	7563170	B2	2009-07-21	Bellows et al.	
	5	9403550	B2	2016-08-02	Zehfuss	
	6	D593459	S	2009-06-02	Liao	
	7	5988670	A	1999-11-23	Song et al.	
	8	6045145	A	2000-04-04	Lan	

	9	7938435	B2	2011-05-10	Sousa et al.	
	10	D429476	S	2000-08-15	Gehr	
	11	D430076	S	2000-08-29	Gehr	
	12	6086087	A	2000-07-11	Yang	
	13	5338096	A	1994-08-16	Huang	
	14	5167425	A	1992-12-01	Chen	
	15	11338836	B2	2022-05-24	Perrot	
	16	11292499	B2	2022-04-05	Rolicki et al.	
	17	11220282	B2	2022-01-11	Chaudeurge	
	18	11208136	B2	2021-12-28	Taylor et al.	
	19	11208135	B2	2021-12-28	Haut et al.	

	20	11203371	B2	2021-12-21	Zhong	
	21	11192568	B2	2021-12-07	Lee et al.	
	22	10556610	B2	2020-02-11	Rolicki et al.	
	23	10449987	B2	2019-10-22	Gibson	
	24	6513827	B1	2003-02-04	Barenbrug	
	25	10899377	B2	2021-01-26	Eggert-Crowe et al.	
	26	8602441	B2	2013-12-10	Li	
	27	6267406	B1	2001-07-31	Huang	
	28	11091186	B2	2021-08-17	Zhang	
	29	8313115	B2	2012-11-20	Cheng	
	30	7971897	B2	2011-07-05	Pike et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-13
	First Named Inventor	Jon Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060290107	A1	2006-12-28	Powers	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	3463874	CN	S	2005-07-27	GOODBABY CHILD PRODUCTS CO LTD		☒
	2	000822556-0003	EU		2007-07-11	ABC Design GmbH		☒
	3	001001572-0002	EU		2008-11-09	Unique Product and design Co., Ltd.		☒
	4	129880-0001	TW		2009-07-21	UNIQUE PRODUCT & DESIGN CO LTD		☒
	5	2188062	CN	Y	1995-01-25	HUANG MINGCHENG		☐
	6	2759883	CN	Y	2006-02-22	ZHENG HUANGYI		☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-13
	First Named Inventor	Jon Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	7	2784272	CN	Y	2006-05-31	SHEN HAIDONG		☐
	8	2841450	CN	Y	2006-11-29	GU JINGDE		☒
	9	101306695	CN	B	2010-11-10	LI ZEJUN		☒
	10	201214440	CN	Y	2009-04-01	LIU FENG		☒

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-13
	First Named Inventor	Jon Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Umar R. Bakhsh/	Date (YYYY-MM-DD)	2022-07-28
Name/Print	Umar R. Bakhsh	Registration Number	67307

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

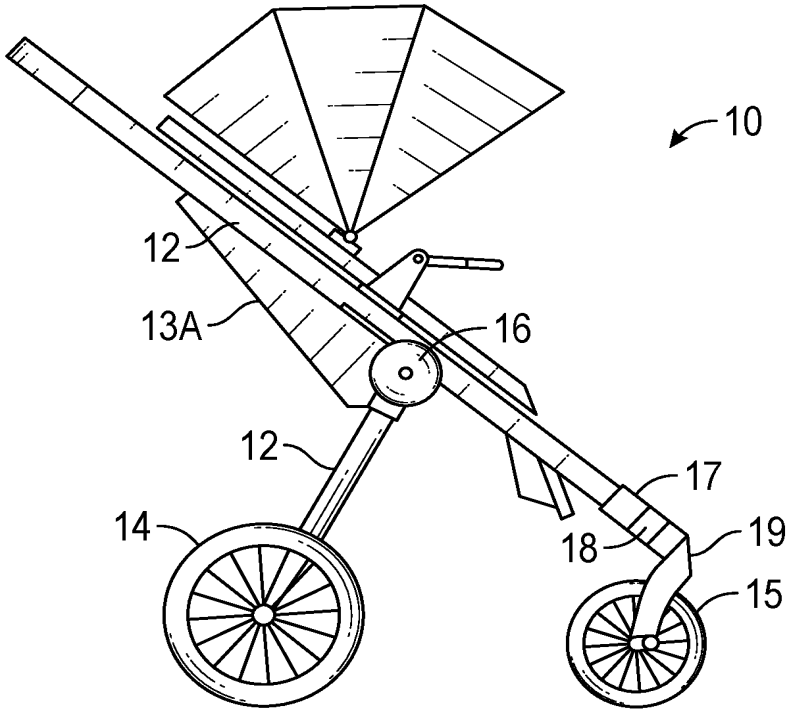


FIG. 1

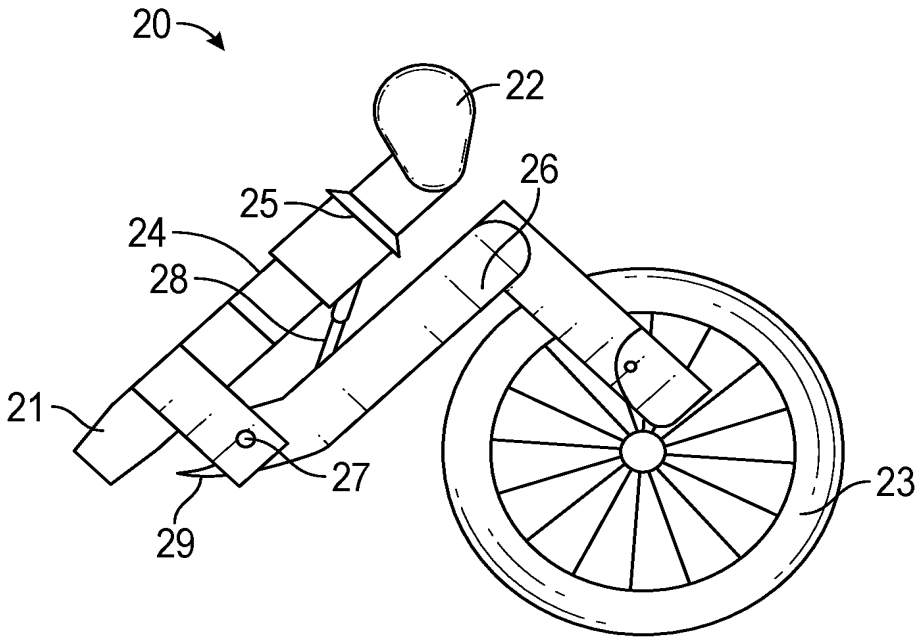


FIG. 2

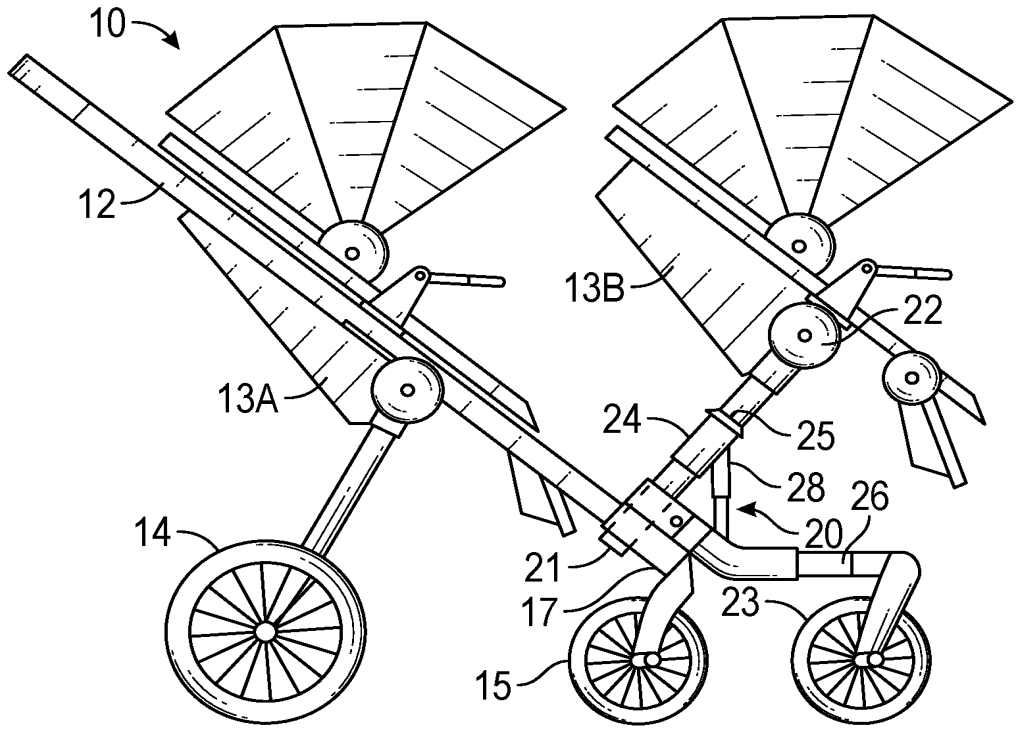


FIG. 3

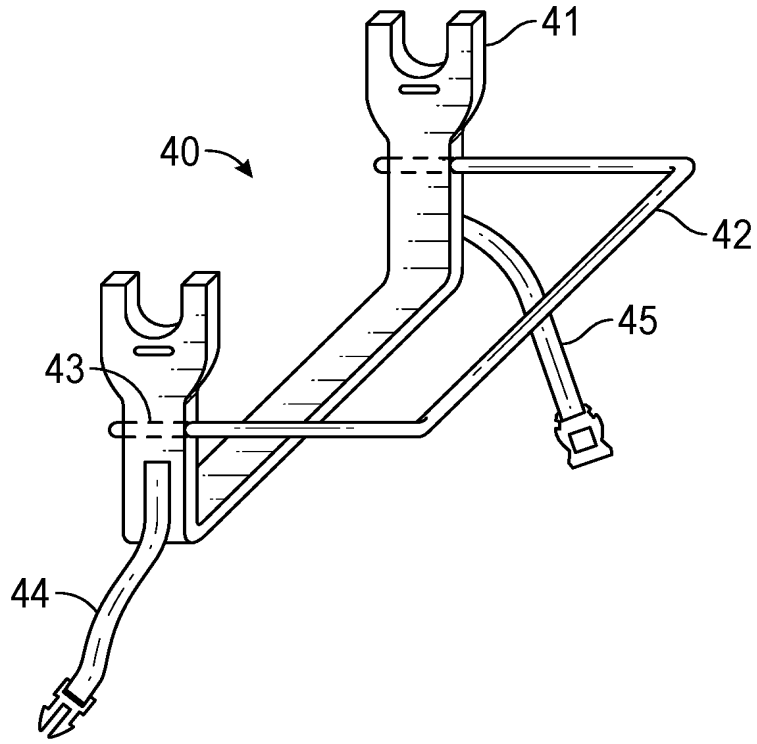


FIG. 4

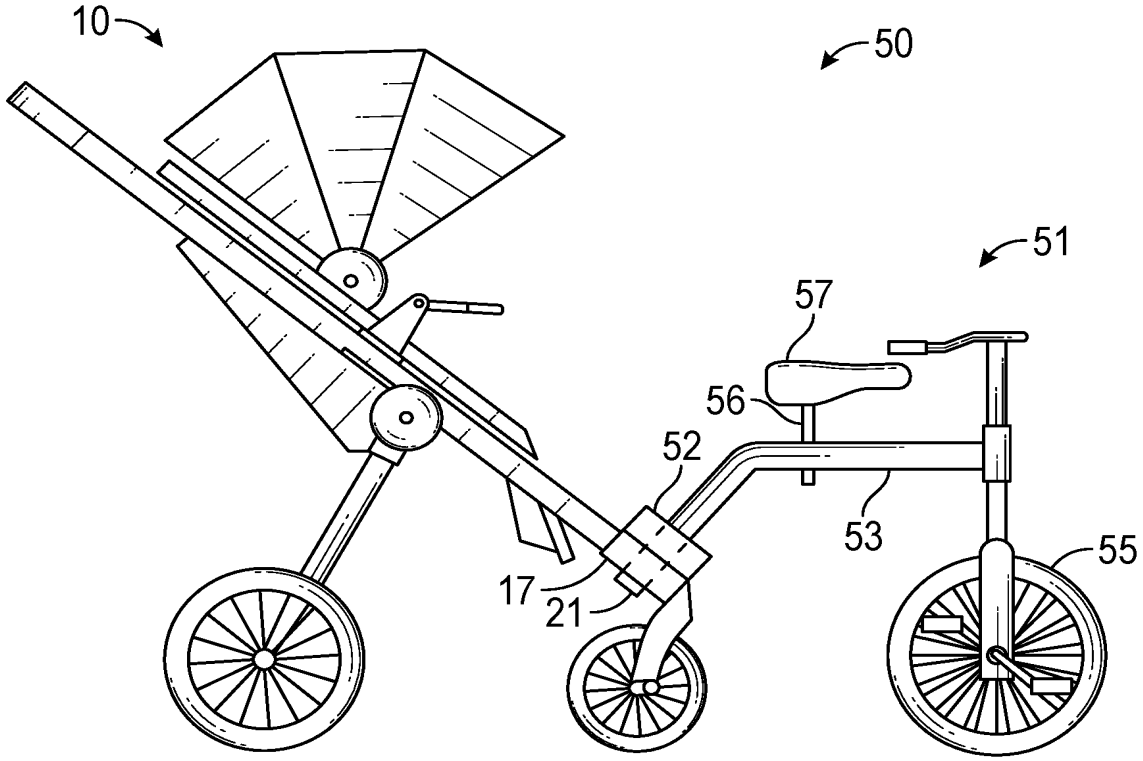


FIG. 5

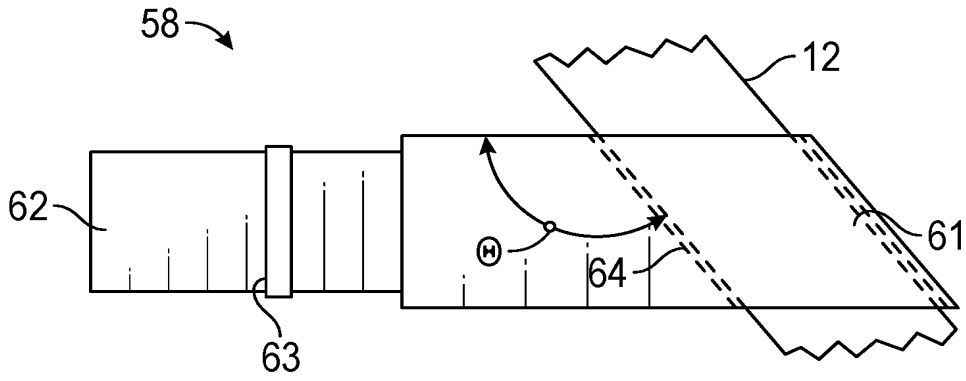


FIG. 6A

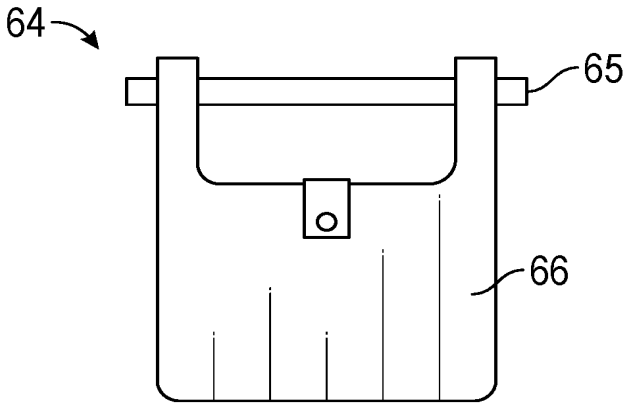


FIG. 6B

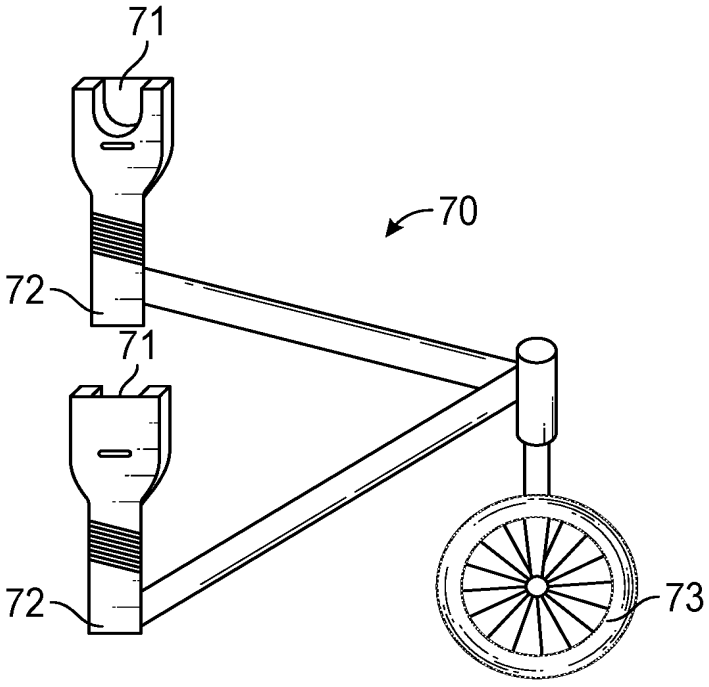


FIG. 7

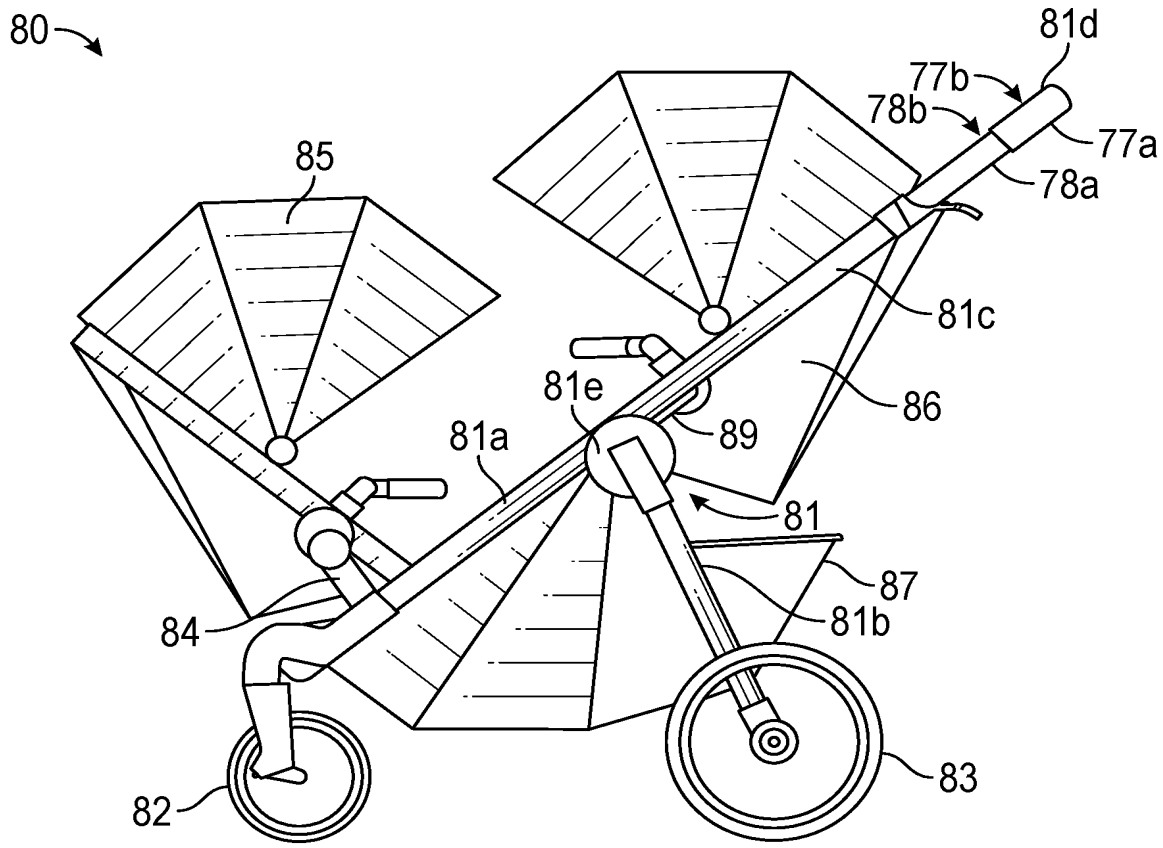


FIG. 8A

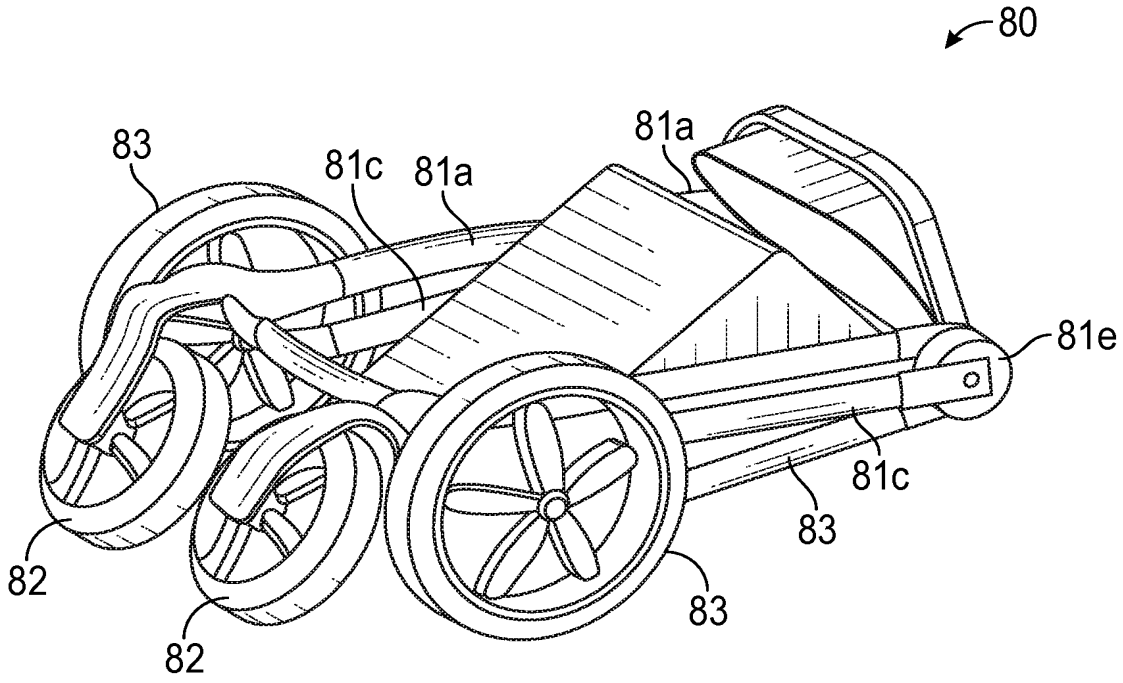


FIG. 8B

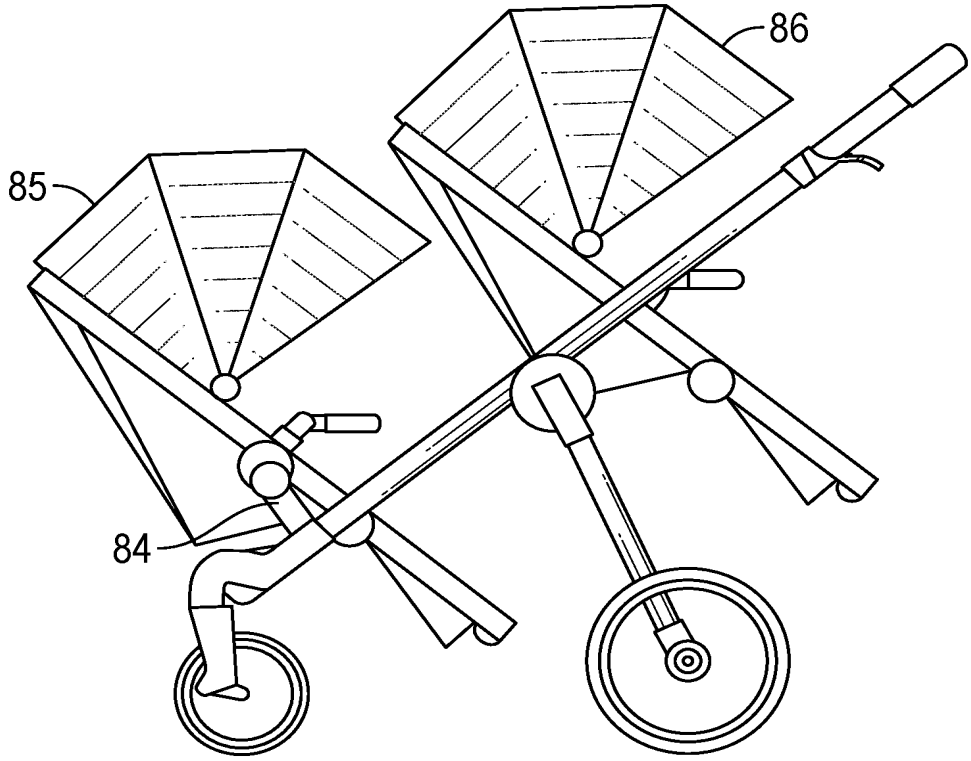


FIG. 8C

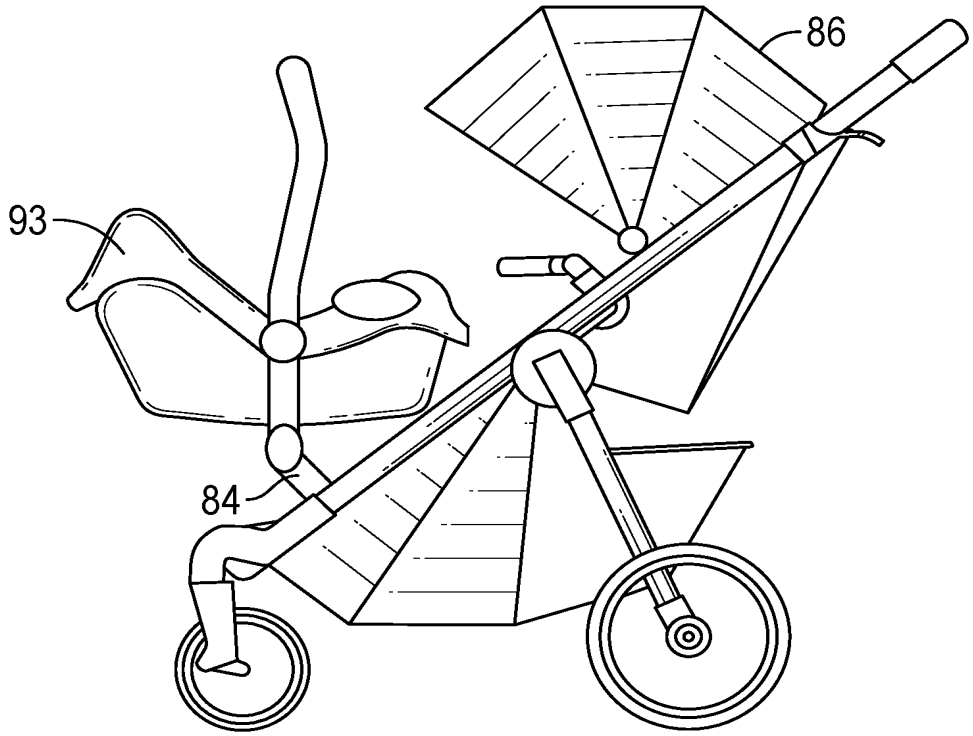


FIG. 8D

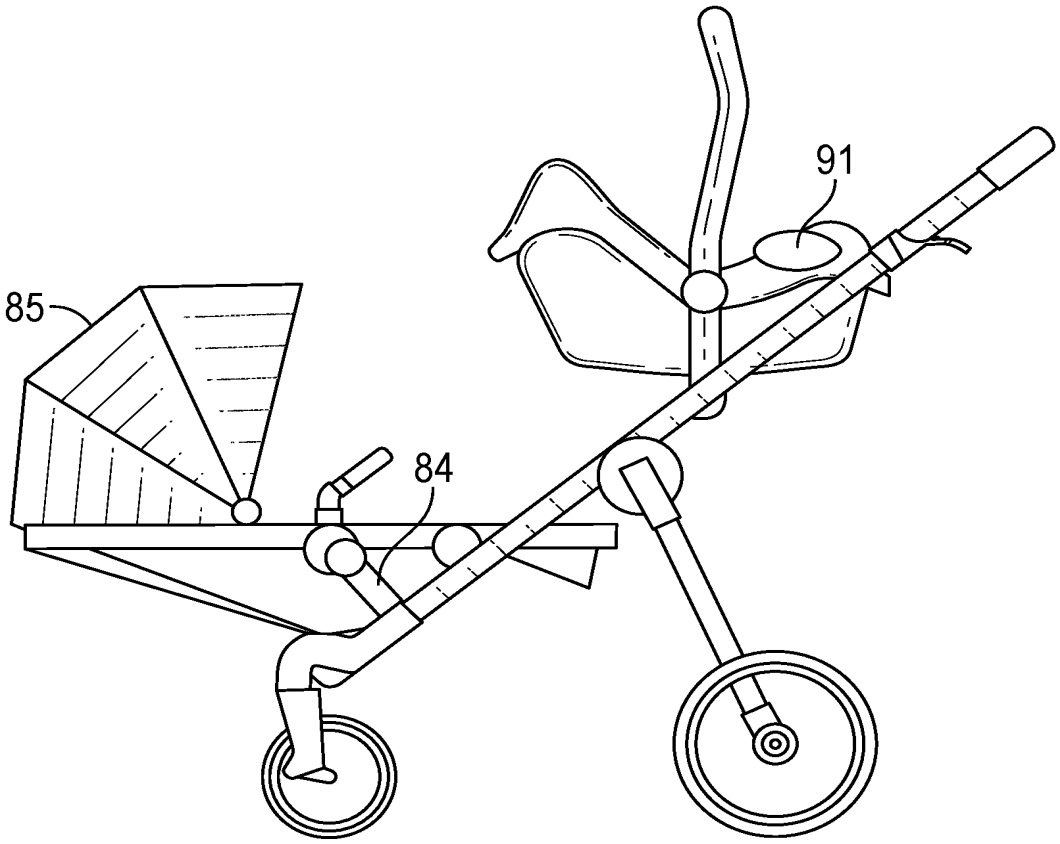


FIG. 8E

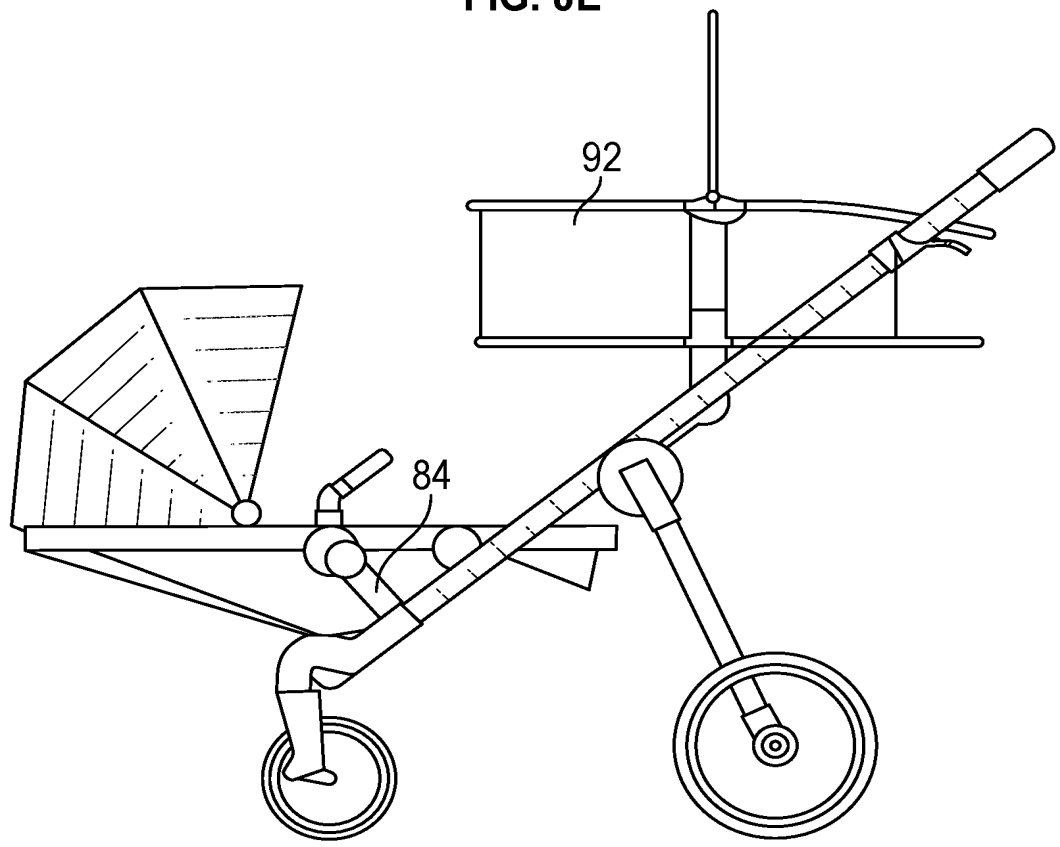


FIG. 8F

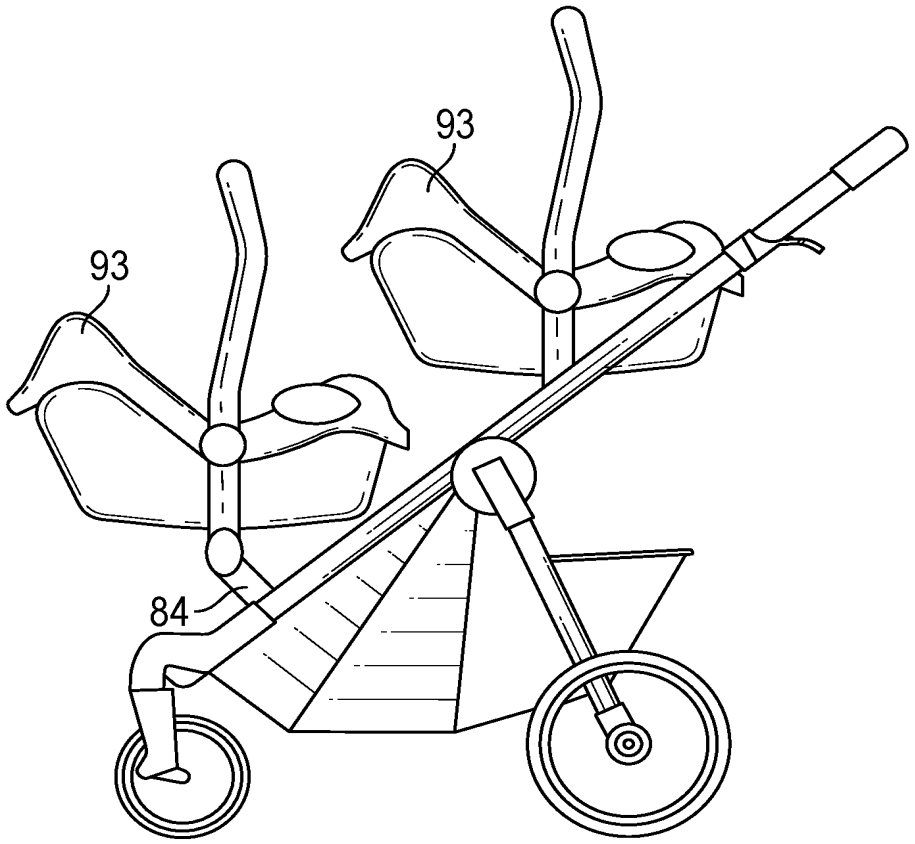


FIG. 8G

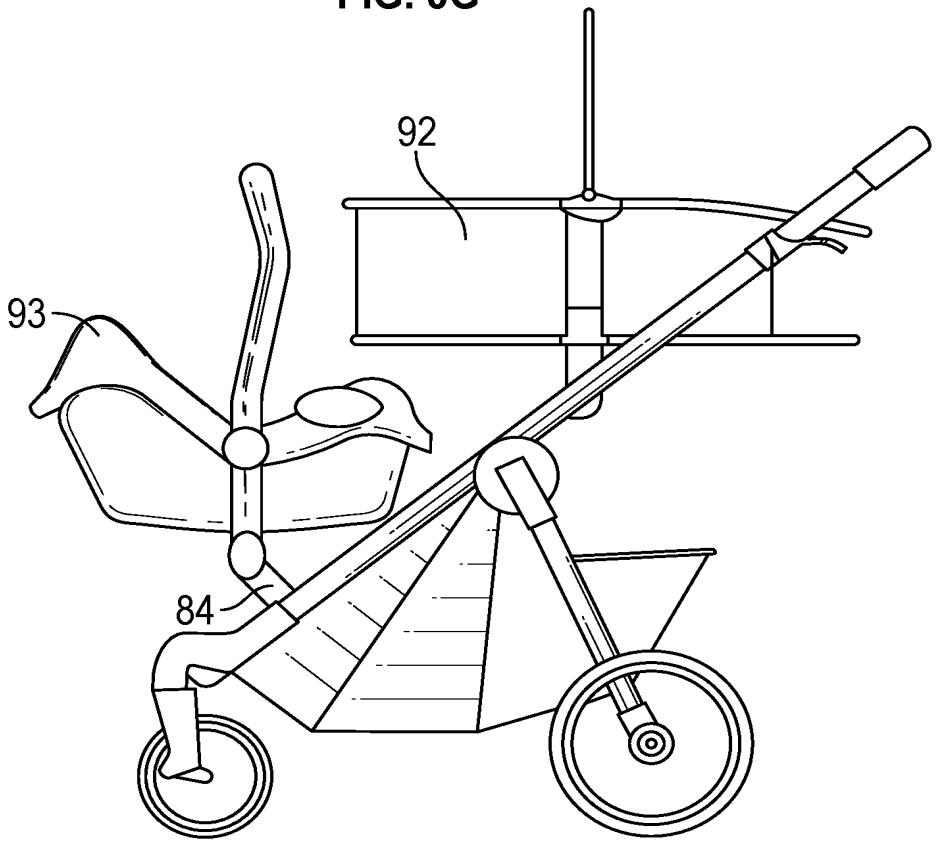


FIG. 8H

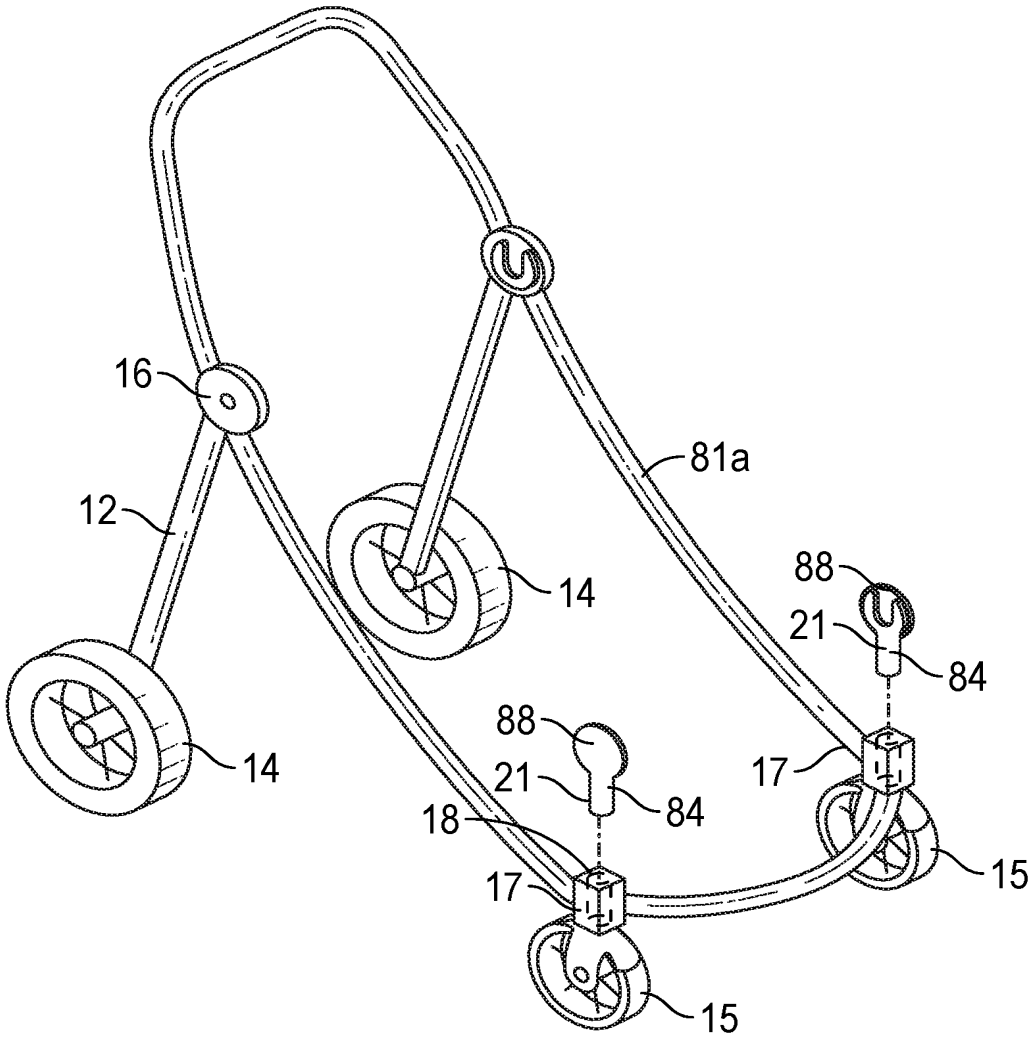


FIG. 9

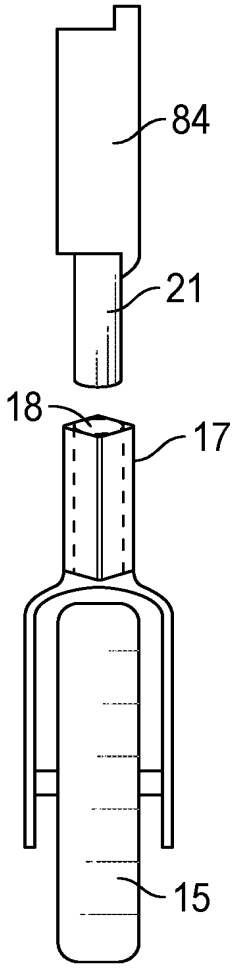


FIG. 10

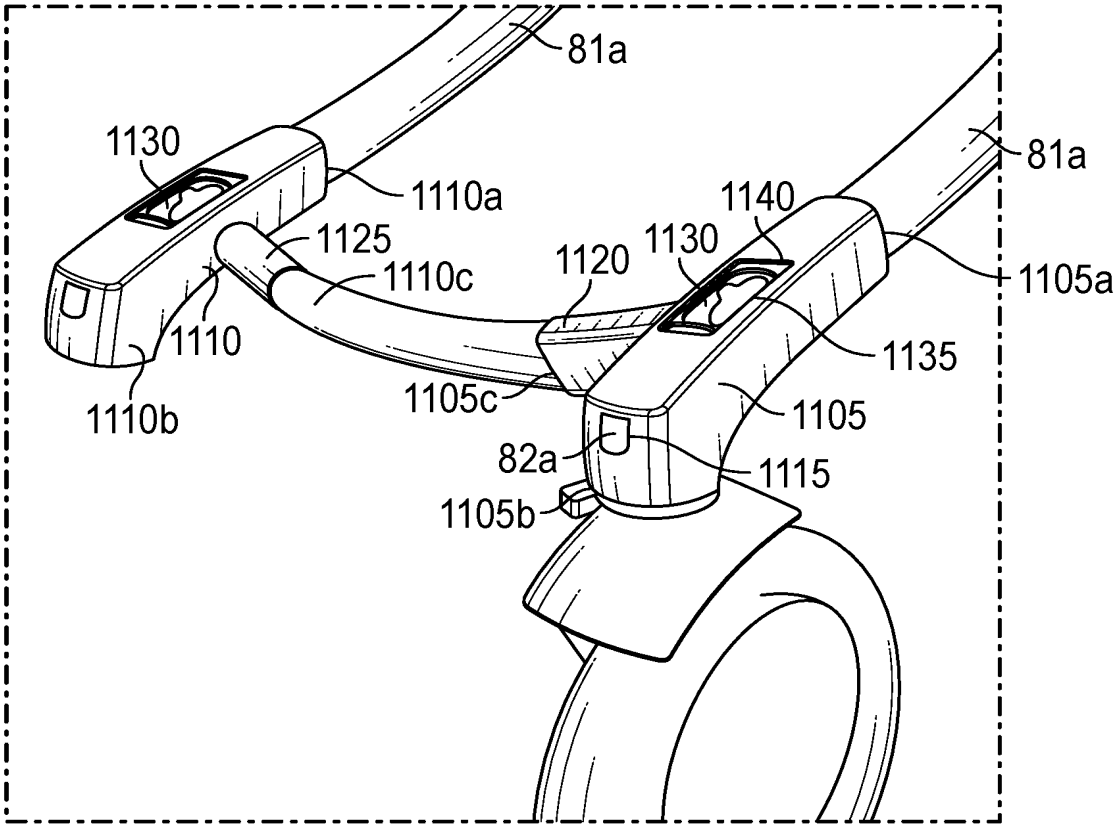

81a
1130
1110a
1125
1110c
1110
1110b
1120
1130
1140
81a
1105a
1135
1105c
1105
82a
1115
1105b

FIG. 11

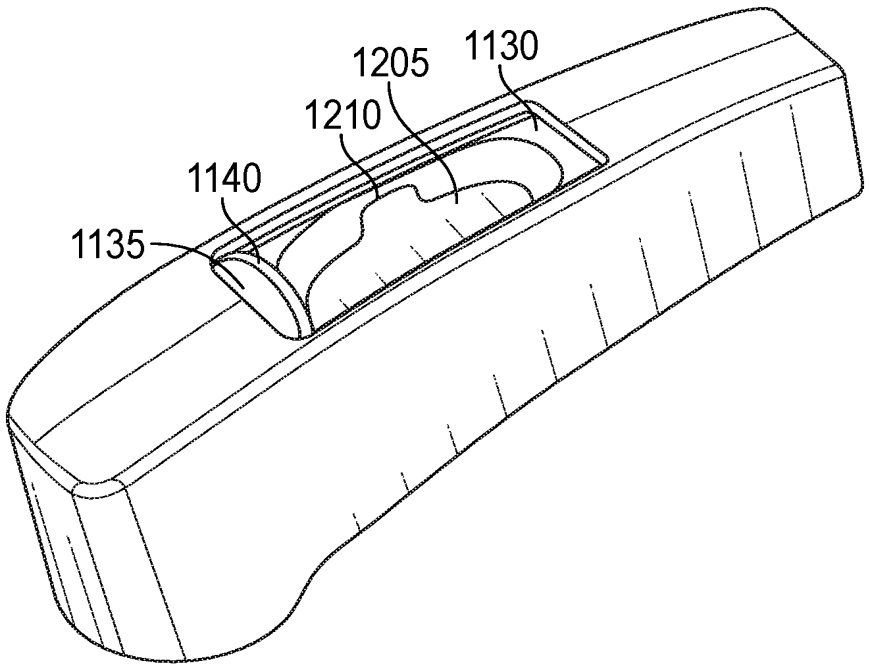


FIG. 12

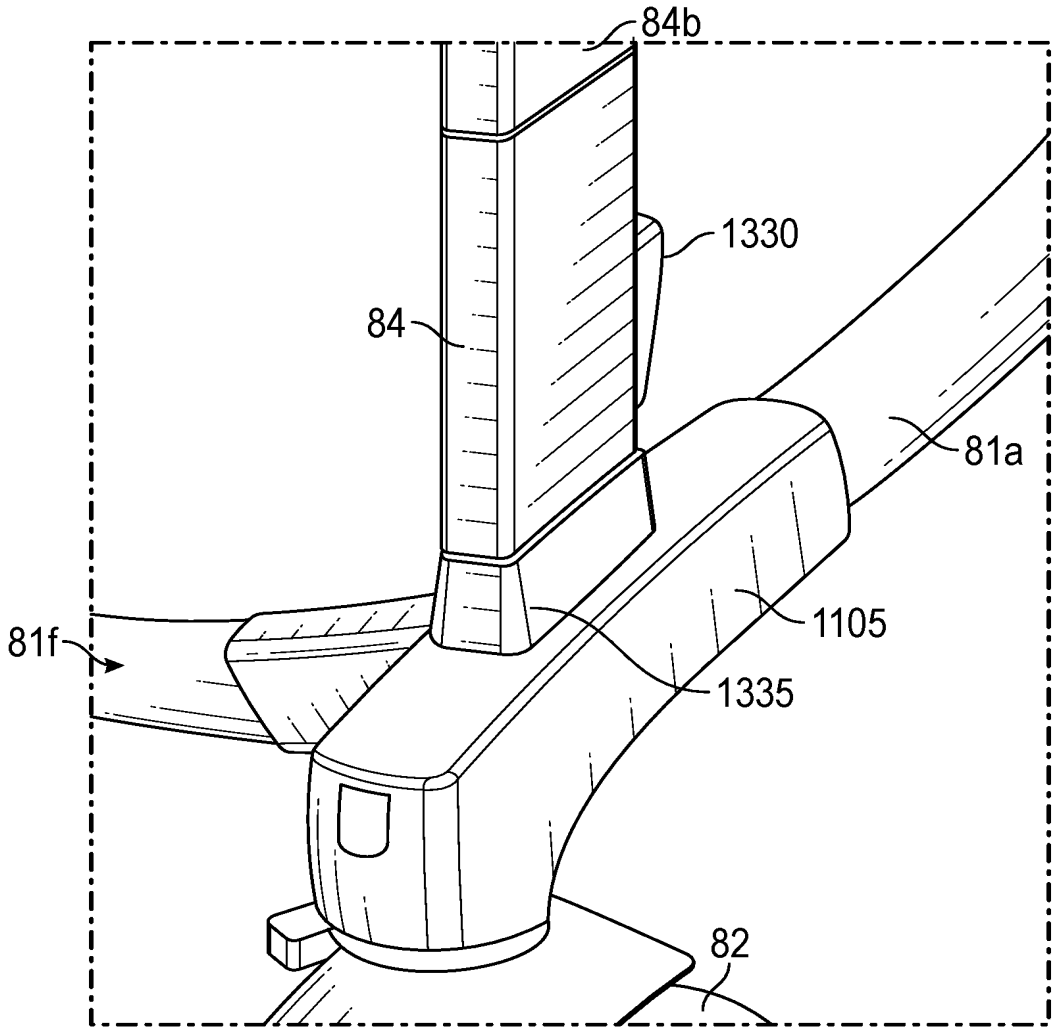


FIG. 13A

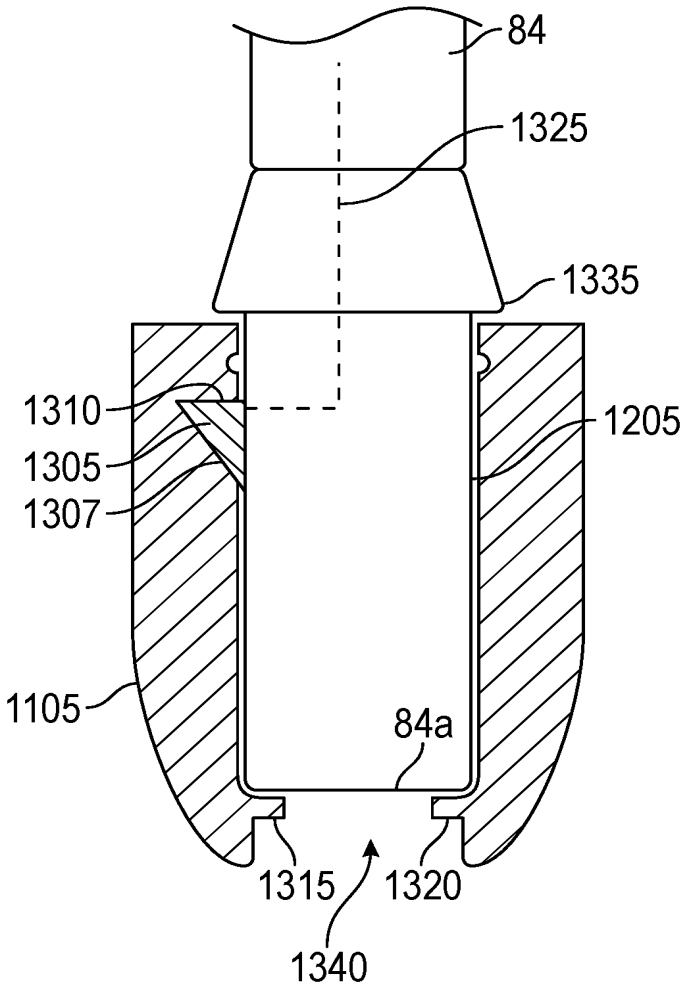


FIG. 13B

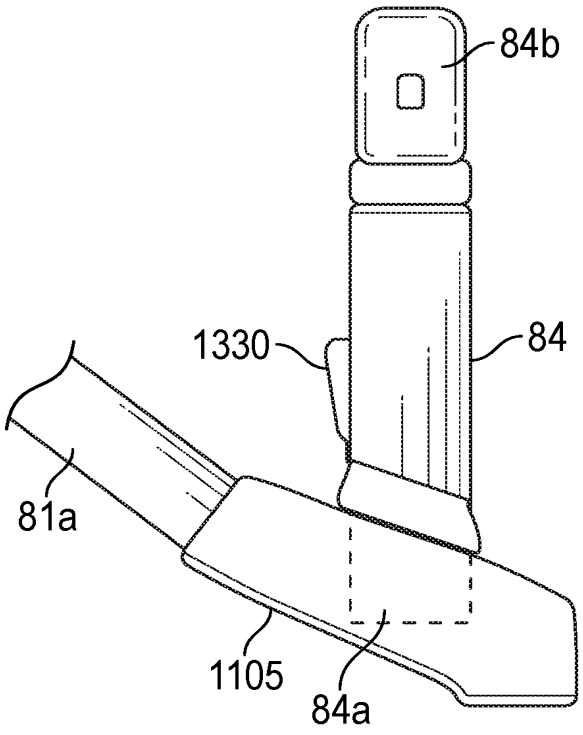


FIG. 13C

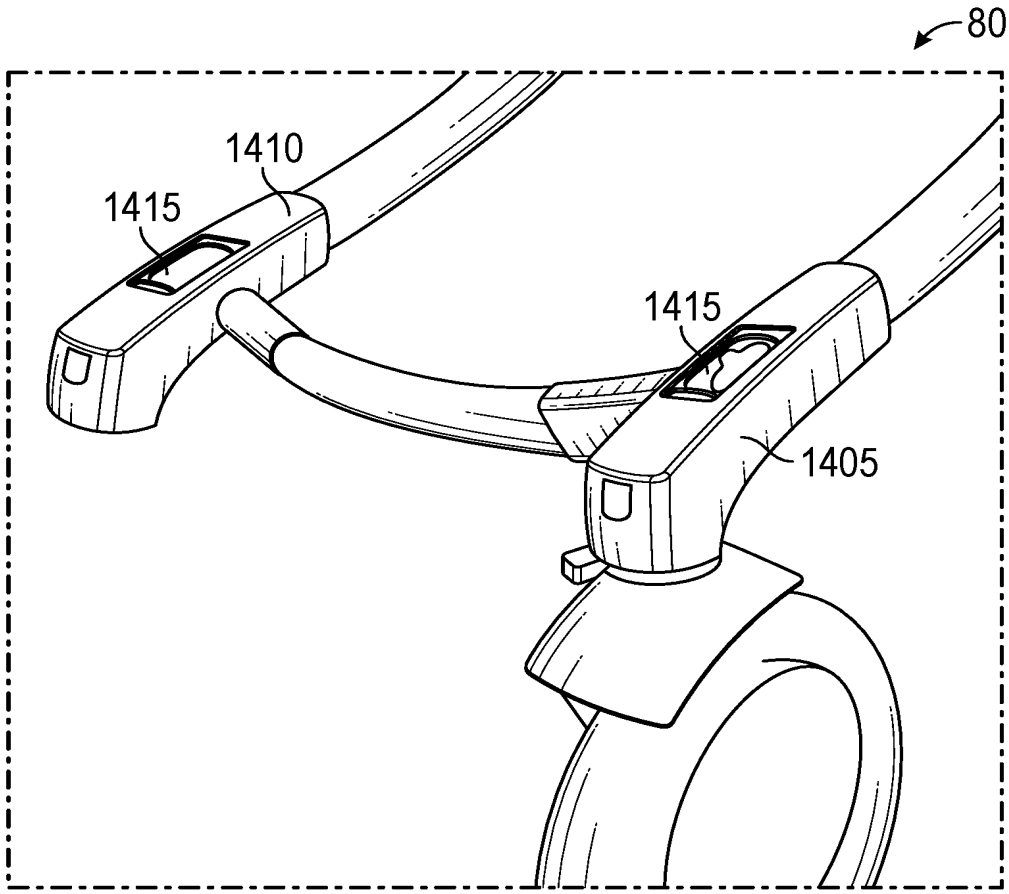


FIG. 14A

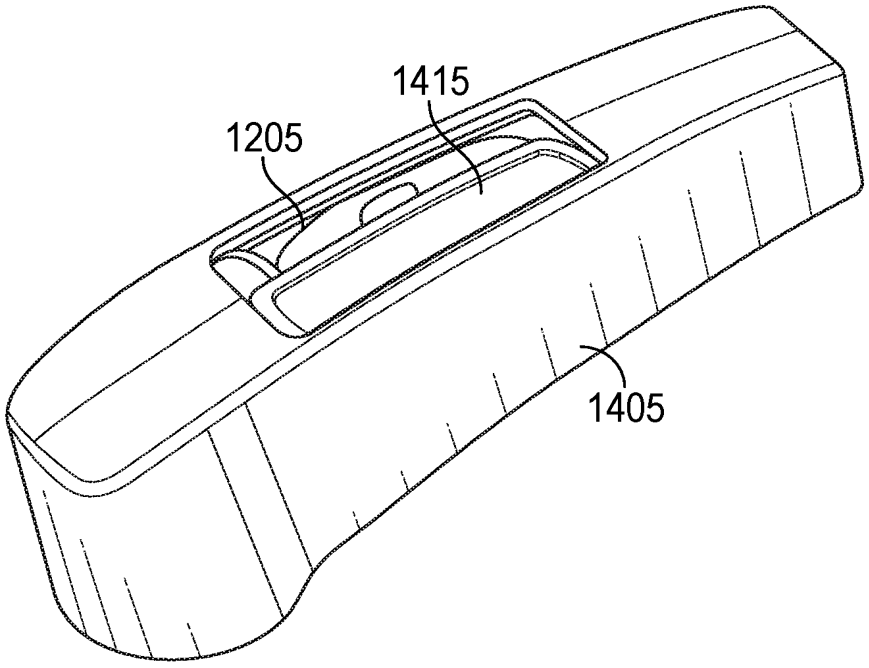


FIG. 14B

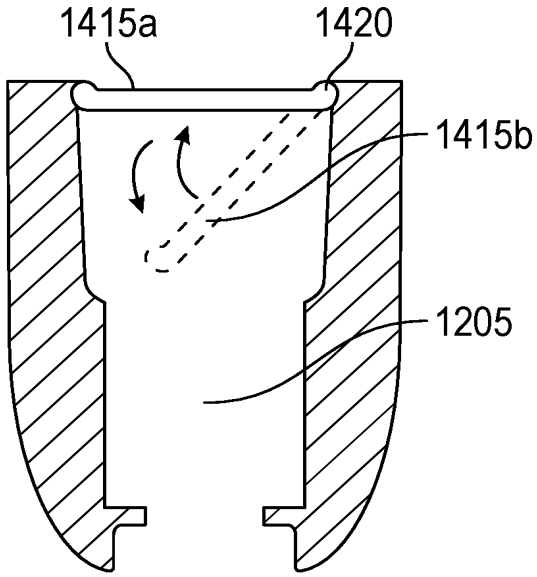


FIG. 14C

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326 Attorney Docket No. 34757-1526
Filed: August 1, 2016

PARTIES TO THE ASSIGNMENT

Assignor(s):

JON HEE LEE
228 S. Central Ave
Highwood, IL 60040

MEGAN ROE
4029 Heights Lane
Kalamazoo, MI 49008

STACY NOEL SIMPSON
6035 Chablis Lane
Portage, MI 49024

MARK ZEHFUSS
10804 Cherry Hill Drive
Glen Allen, VA 23059

Assignee:

BABY JOGGER, LLC
8575 Magellan Parkway, Suite 1000
Richmond, VA 23227

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled **"REMOVABLE SEAT ATTACHMENT FOR A STROLLER"** (Invention) for which a non-provisional application for United States Letters Patent

☒ was filed on August 1, 2016, and accorded U.S. Application No. 15/225,326 ; or

☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Sutherland Asbill and Brennan LLP, associated with Customer No. 134811, to insert in the header above and here in

parentheses (U.S. Application No. 15/225,326 , filed August 1, 2016), this application's U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Virginia, is desirous of acquiring the entire right, title and interest in and to the Invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any

violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the application and the Invention or any improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon our heirs, legal representatives, administrators, and assigns.

CORRESPONDENCE ADDRESS

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

134811

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

Attorney Docket No. 34757-1526

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

- ☐ the attached application; or
- ☒ United States application number 15/225,326 filed on August 1, 2016; or
- ☐ PCT international application number _____ filed on _____.

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **JON HEE LEE**

Jon Hee Lee

07/28/16
Date

STATE OF Illinois
ss.
COUNTY OF Cook

This 28 day of July, 2016 before me personally came the above-named **Jon Hee Lee**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)

OFFICIAL SEAL
ANTHONY KEITH WINSTON
Notary Public - State of Illinois
My Commission Expires 08/21/2018

37061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

Attorney Docket No. 34757-1526

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

X United States application number 15/225,326 filed on August 1, 2016; or

PCT international application number _____ filed on _____, ____

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **MEGAN ROE**

Megan Roe

07.28.16
Date

STATE OF Michigan
ss.
COUNTY OF Kalamazoo

This 28th day of July, 2016 before me personally came the above-named **Megan Roe**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Diane L. Martin
(Notary Public)

DIANE L. MARTIN, Notary Public
State of Michigan, County of Cass
My Commission Expires 09/18/2022
Acting in the County of Kalamazoo

87061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

Attorney Docket No. 34757-1526

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

- ☐ the attached application; or
- ☒ United States application number 15/225,326 filed on August 1, 2016; or
- ☐ PCT international application number _____ filed on _____
  (We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: **STACY NOEL SIMPSON**

Stacy Noel Simpson

7/25/2016
Date

STATE OF
ss.
COUNTY OF

This 25th day of July, 2016 before me personally came the above-named **Stacy Noel Simpson**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

Diane L Martin
(Notary Public)

DIANE L. MARTIN, Notary Public
State of Michigan, County of Cass
My Commission Expires 09/16/2022
Acting in the County of Kalamazoo

37061224.1

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

Attorney Docket No 34757-1526

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

☐ the attached application; or

☒ United States application number 15/225,326 filed on August 1, 2016; or

☐ PCT international application number _____ filed on _____.
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: MARK ZEHFUSS

Mark Zehfuss

8/2/16
Date

STATE OF Virginia
ss.
COUNTY OF Henrico

This 2nd day of August, 2016 before me personally came the above-named **Mark Zehfuss**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

DARNELL TREVON TAYLOR
COMMONWEALTH OF VIRGINIA
REG. NO. 7508517 EXP. 8-31-18
NOTARY PUBLIC

Darnell Trevon Taylor
(Notary Public)

37061224.1

EVENFLO ET AL. EX1021

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-07-28
First Named Inventor	John Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6286844	B1	2001-09-11	Cone, II et al.	
	2	7475900	B2	2009-01-13	Cheng	
	3	7377537	B2	2008-05-27	Li	
	4	7563170	B2	2009-07-21	Bellows et al.	
	5	9403550	B2	2016-08-02	Zehfuss	
	6	D593459	S	2009-06-02	Liao	
	7	5988670	A	1999-11-23	Song et al.	
	8	6045145	A	2000-04-04	Lan	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-28
	First Named Inventor	John Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	9	7938435	B2	2011-05-10	Sousa et al.	
	10	D429476	S	2000-08-15	Gehr	
	11	D430076	S	2000-08-29	Gehr	
	12	6086087	A	2000-07-11	Yang	
	13	5338096	A	1994-08-16	Huang	
	14	5167425	A	1992-12-01	Chen	
	15	11338836	B2	2022-05-24	Perrot	
	16	11292499	B2	2022-04-05	Rolicki et al.	
	17	11220282	B2	2022-01-11	Chaudeurge	
	18	11208136	B2	2021-12-28	Taylor et al.	
	19	11208135	B2	2021-12-28	Haut et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-28
	First Named Inventor	John Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	20	11203371	B2	2021-12-21	Zhong	
	21	11192568	B2	2021-12-07	Lee et al.	
	22	10556610	B2	2020-02-11	Rolicki et al.	
	23	10449987	B2	2019-10-22	Gibson	
	24	6513827	B1	2003-02-04	Barenbrug	
	25	10899377	B2	2021-01-26	Eggert-Crowe et al.	
	26	8602441	B2	2013-12-10	Li	
	27	6267406	B1	2001-07-31	Huang	
	28	11091186	B2	2021-08-17	Zhang	
	29	8313115	B2	2012-11-20	Cheng	
	30	7971897	B2	2011-07-05	Pike et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-28
	First Named Inventor	John Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060290107	A1	2006-12-28	Powers	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	3463874	CN	S	2005-07-27	GOODBABY CHILD PRODUCTS CO LTD		×
	2	000822556-0003	EU		2007-07-11	ABC Design GmbH		☒
	3	001001572-0002	EU		2008-11-09	Unique Product and design Co., Ltd.		☒
	4	129880-0001	TW		2009-07-21	UNIQUE PRODUCT & DESIGN CO LTD		☒
	5	2188062	CN	Y	1995-01-25	HUANG MINGCHENG		☐
	6	2759883	CN	Y	2006-02-22	ZHENG HUANGYI		☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-28
	First Named Inventor	John Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	7	2784272	CN	Y	2006-05-31	SHEN HAIDONG		☐
	8	2841450	CN	Y	2006-11-29	GU JINGDE		☒
	9	101306695	CN	B	2010-11-10	LI ZEJUN		☒
	10	201214440	CN	Y	2009-04-01	LIU FENG		☒

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-28
	First Named Inventor	John Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Umar R. Bakhsh/	Date (YYYY-MM-DD)	2022-07-28
Name/Print	Umar R. Bakhsh	Registration Number	67307

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	REMOVABLE SEAT ATTACHMENT FOR A STROLLER
First Named Inventor/Applicant Name:	Jon Hee LEE
Filer:	Umar Rahim Bakhsh
Attorney Docket Number:	34757-2680

Filed as Large Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4200	4200
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	10	100	1000
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140

Petition:	
Patent-Appeals-and-Interference:	
Post-Allowance-and-Post-Issuance:	
Extension-of-Time:	
Miscellaneous:	
Total in USD ($)	**7160**

Electronic Acknowledgement Receipt

EFS ID:	46295372
Application Number:	17876492
International Application Number:	
Confirmation Number:	4904
Title of Invention:	REMOVABLE SEAT ATTACHMENT FOR A STROLLER
First Named Inventor/Applicant Name:	Jon Hee LEE
Customer Number:	134811
Filer:	Umar Rahim Bakhsh
Filer Authorized By:	
Attorney Docket Number:	34757-2680
Receipt Date:	28-JUL-2022
Filing Date:	
Time Stamp:	22:38:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$7160
RAM confirmation Number	E20227RM39123818
Deposit Account	195029
Authorized User	Umar Bakhsh

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Track One Request	2680TRACK1_REFILE.pdf	524359 aea0d6193813da25af8674c7db758cfb979dca5a	no	2
Warnings:					
Information:					
2	Application Data Sheet	2680ADS_REFILE_.pdf	491573 56372d0555d2db4f768a77437b572d724c8f7983	no	10
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3		2680APP_REFILE.pdf	544716 27075e837a5b18cc7edb47cd0beb7ecf64dcb7a3	yes	28

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	22
Claims	23	27
Abstract	28	28

Warnings:					
Information:					
4	Oath or Declaration filed	2680DECS_REFILE.pdf	446120 1860160a58b2748e5e7afddfbe3217528b4fea4d	no	7
Warnings:					
Information:					

5	Information Disclosure Statement (IDS) Form (SB08)	2680IDS_REFILE.pdf	454152 a4849ba8607ef2bd30b891179e856dcf6d6a081a	no	7
Warnings:					
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Information:					
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Espacenet

CN2188062Y Front seat location structure for double-seat perambulator

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Inventors: MINGCHENG HUANG [CN]

Classifications:
IPC ***B62B9/00;*** (IPC1-7): B62B9/00;

Priorities: CN93243529U 1993-10-30

Application: CN93243529U·1993-10-30

Publication: CN2188062Y·1995-01-25

Published as: CN2188062Y

Front seat location structure for double-seat perambulator

Abstract

The utility model relates to a front seat location structure for a double-seat perambulator. Both sides of the supporting frame of a front seat are respectively provided with two clamping posts, and the front end of the location rod of the seat of the main frame of a perambulator body is respectively fixedly connected with a limiting member and a supporting block and pivoted with a hooking plate. The limiting member and the supporting block provide the top support of a branch frame. The locating gap of the top end of the limiting member is inserted in the other clamping post by the locating gap and the block clamping part of the top end of the limiting member, the clamping posts which is clamped and blocked at the front end of the supporting frame and the hooking plate which is wrenched so that the location structure of the front seat is formed.

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[19]中华人民共和国专利局

[11] 授权公告号 CN 2188062Y

[12] 实用新型专利说明书

[21] ZL 专利号 93243529.7

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[45]授权公告日 1995 年 1 月 25 日

B62B 9 / 00

[22]申请日 93.10.30 [24]颁证日 94.11.13

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[21]申请号 93243529.7

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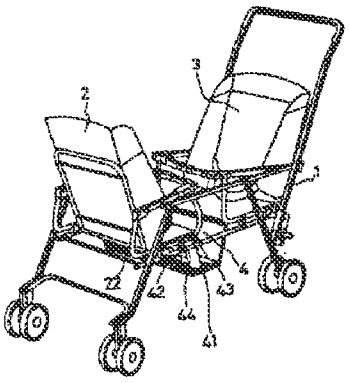
代理人 崔幼平

说明书页数: 附图页数:

[54]实用新型名称 一种双人乘坐型婴儿车的前座椅定位结构

[57]摘要

一种双人乘坐型婴儿车的前座椅定位结构，其是在前座椅支撑框架的两侧各设二卡柱，而车体主框架的座椅定位杆前端分别固接有界限件及支撑块，且枢接有扣钩板，由界限件及支撑块提供支框架的顶撑，并通过界限件顶端的定位缺口、卡挡部以及卡挡支撑框架前端的卡柱，且扳转扣钩板，以将其定位缺口嵌于另一卡柱中，从而构成前座椅定位结构。



权利要求书

CPUM937707

1.一种双人乘坐型婴儿车的前座椅定位结构，其是由车体主框架（1）、前、后座椅（2），（3）及前座椅定位结构（4）等组成；其中该车体主框架（1）于两侧的座椅定位杆（13）的后端与后坐椅的支撑框架（32）两侧下方之间固接有二支撑块（36）而固定设置后座椅，而前座椅的支撑框架（22）与座椅定位杆之间则有一定位结构，以定位该前座椅于车体主框架上；其特征在于；该定位结构包含有：

二卡柱（41），其是分别固设在前座椅的支撑框架两侧下方的两端，且其为一前端具有凸头（411）的柱体；

一界限件（42），其是对应前座椅前端的一卡柱而固定设置于车体主框架两侧的座椅定位杆上，其为一大概呈H型的块体，于顶端两侧壁留有定位缺口（422），同时，顶端外侧壁向上延伸形成一呈┌型的卡挡部（423）；

一扣钩板（43），其是对应前座椅后端的一卡柱而枢置于车体主框架两侧的座椅定位杆上，其顶端侧边形成有一定位缺口（432），另一侧边则有一凸片（433）；

一支撑块（44），其是固设于界限件与扣钩板之间的座椅定位杆上，且为一大概呈H型的块体。

说明书

CPUM937707

一种双人乘坐型婴儿车的前座椅定位结构

本实用新型是关于一种双人乘坐型婴儿车的前座椅定位结构，特别是一种在车体主框架两侧的座椅定位杆上的前端依次序固设有一界限件及一支撑块，并枢接一扣钩板以形成前座椅的定位结构。

综观目前经济的发展逐步带动物质生活的提高，于是，种类繁多的婴儿系列用品竞相展现于市场，给于婴儿无微不至的照顾选择，其中，为方便携带婴儿外出散步，以接近大自然呼吸新鲜空气的婴儿车，在市场激烈竞争下，各项附加功能随之开发问世，而婴儿车也不再只提供一人乘坐，如图6所示，其为一种可提供二名婴儿同时乘坐的双人乘坐型婴儿车，其可使照顾者一次同时携带二婴儿外出，减少照顾上的负担；然而，该婴儿车所配置的二前、后椅10、20、固设于车体30上，且为同向对应，但当婴儿们各乘坐于前、后座椅10、20上时，无法享受面对面嬉戏游玩的乐趣，故此使该双人乘坐型婴儿车在提供婴儿照顾上存在一项美中不足的缺陷。

本实用新型的目的是要提供一种改进的双人乘坐型婴儿车的前座椅定位结构，它能使前座椅在选择与后座椅同向或相向面对面时，皆可稳固地在车体框架上定位，使双人的乘坐更添乐趣。

本实用新型的目的是通过这样的结构实现的，对于双人乘坐型

婴儿车结构的前座椅的定位是在前座椅的支撑框架侧边下方的两端，其设有前端为凸头的卡柱；同时，在婴儿车车体主框架两侧的座椅定位杆前端适当位置处固设一大概呈H型的支撑块以供顶撑前座椅，且座椅定位杆上的支撑块的两侧对应于卡柱的位置分别固设一大概呈H型的界限件，界限件的顶端两侧留有定位缺口，且外侧壁顶端向上延伸有一呈「型的卡挡部，供卡挡前座椅的一卡柱；及枢设一扣钩板，扣钩板前侧上端有可扣嵌前座椅的另一卡柱的定位缺口，另一侧则有一便于扳转该扣钩板的凸片；因此，前座椅除可与后座椅同向而立外，也可选择与后座椅面对面相向而立，由界限件和支撑块共同顶撑前座椅，同时，前座椅的一卡柱置于界限件的卡挡部下方的定位缺口，且扳转扣钩板而以其定位缺口扣嵌前座椅的另一卡栓，使前座椅有一稳固且操作便利的定位结构。

本实用新型提供一种双人乘坐型婴儿车的前座椅定位结构，其是由车体主框架、前、后座椅及前座椅定位结构等组成；其中该车体主框架于两侧的座椅定位杆后端与后座椅的支撑框架两侧下方之间固接有二支撑块而固定设置后座椅，而前座椅的支撑框架与座椅定位杆之间则有一定结构，以定位该前座椅于车体主框架上；其特征在是该定位结构包含有：二卡柱，其是分别固设在前座椅的支撑框架两侧下方的两端，且其为一前端具有凸头的柱体；一界限件，其是对应前座椅前端的一卡柱而固定设置于车体主框架两侧的座椅定位杆上，其为一大概呈H型的块体，于顶端两侧壁留有定位缺口，同时，顶端外侧壁向上延伸形成一呈 型的卡挡部；一扣钩板，其是对应前座椅后端的一卡柱而枢置于车体主框架两侧的座椅定位杆上，其顶端侧边形成有一定位缺口，另一侧边则有一凸片；一支撑

块，其是固设于界限件与扣钩板之间的座椅定位杆上，且为一大概呈H型的块体。

本实用新型的具体结构与实施，由以下各附图及有关实施例给出。其中，

图1是本实用新型双人乘坐型婴儿车的透视图；

图2是本实用新型的前座椅的定位结构立体外观图；

图3是本实用新型的前座椅转向后顶撑于座椅定位杆上的示意图；

图4是本实用新型的前座椅转向确切定位于座椅定位杆上的示意图；

图6是本实用新型的前、后座椅相向而立的婴儿车的透视图；和

图6是常用双人乘坐型婴儿车的透视图。

图1是本实用新型双人乘坐型婴儿车的透视图，其示出本实用新型的双人乘坐型婴儿车主要是由车体主框架1、前、后座椅2、3、前座椅定位结构4等组成；其中车体主框架1的后端为一手推杆11，同时，手推杆11 的两侧底端上、下处各固接一前伸杆12及一座椅定位杆13，而在两侧的前伸杆 12与座椅定位杆13之间的后端至手推杆11底部固接一底端枢置后车轮141的后车轮支撑杆14，另外在两侧的前伸杆12与座椅定位杆13之间的前端则固接有底端枢置前车轮161的前车轮支撑杆15，且二前车轮支撑杆16之间的下端衔连有一辅助支杆16，此外，在二座椅定位杆13之间的中央适当位置固设有一网架17；而有关于定位于车体主框架1所具有座椅定位杆13上的前、后座椅2、3是在顶端固设有护框条21、31的支撑框架22、32上，配

置有具有安全护带２３１、３３１的靠背２３、３３、坐垫２４、３４及脚踏板２５、３６组成的连接体；而对于后座椅３的定位采用在支撑框架３２两侧的下端与座椅定位杆１３之间固接二支撑块３６以形成固定设置；然而，前述的结构为一般常用双人乘坐型婴儿车结构，非本实用新型的特征所在，本实用新型的结构特征是前座椅２的定位结构４是在支撑框架２２两侧的下方的两端各设有一卡柱４１，同时，在前座椅定位杆１３上对应于卡柱４１处各固接有一界限件４２及枢接一扣钩板４３，且界限件４２及扣钩板４３之间的前座椅定位杆１３上固设一支撑块４４。

图２是本实用新型的前座椅定位结构的立体外观图，示出的定位结构４中，前座椅２的支撑框架２２与婴儿车车体主框架１的座椅定位杆１３之间为非固接的关系，故前座椅２可随时自由选择与后座椅３为同向或相向定位；而前座椅２的支撑框架２２两侧的下方的两端所焊固的卡柱４１为前端具有凸头４１１的柱体，同时，位于座椅定位杆１３前端的界限件４２为一大概呈H型的块体，其底端以二铆钉４２１固设于座椅定位杆１３上，且顶端两侧留有定位缺口　４２２，　而外侧壁顶端并向上延伸有一呈┌型的卡挡部４２３；另外，位于座椅定位杆１３后端的扣钩板４３为底端以一铆钉４３１活动地枢置于座椅定位杆１３上，其前侧上端有一定位缺口４３２，另一侧则有一凸片４３３；而支撑块４４也为一大概呈H型的块体，其底以一铆钉４４１将其固置于界限件　４２与扣钩板４３之间的底椅定位杆１３上。

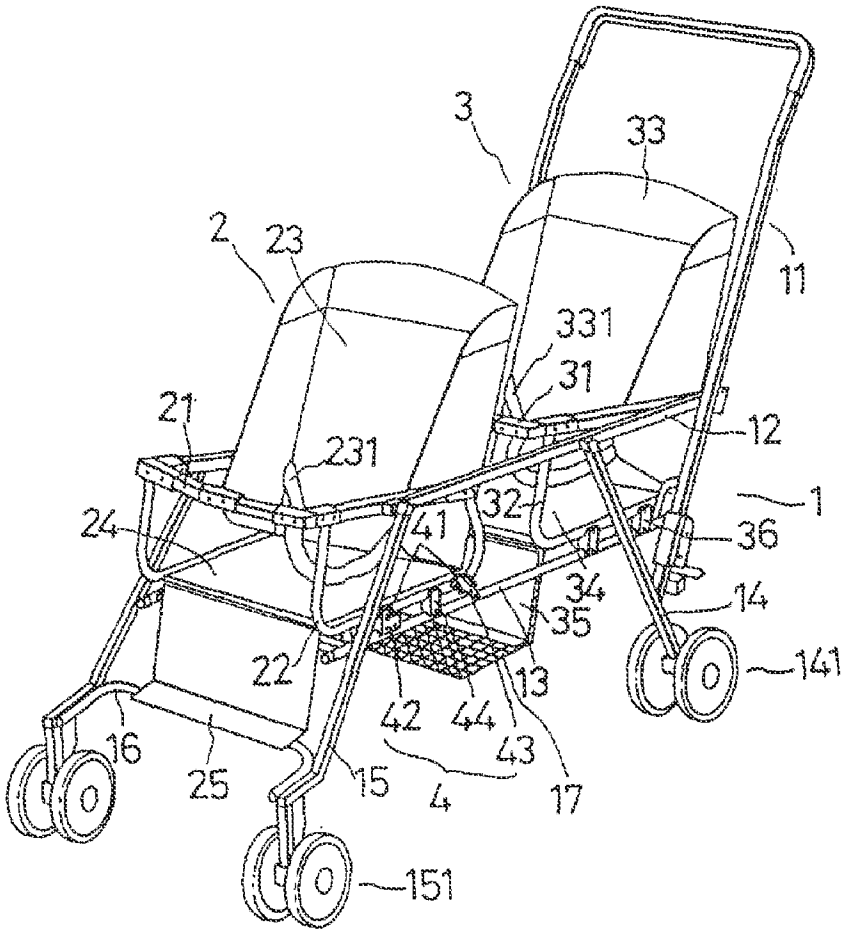
图３是本实用新型前座椅转向顶撑于座椅定位杆上的示意图，其示出前座椅２在转向和后座椅３相向定位时，首先则先由固置于

座椅定位杆１３上的界限件４２、支撑块４４的顶端所具有的凹弧顶端作顶撑。

图４是本实用新型前座椅转向后确切定位于座椅定位杆上的示意图，其示出在前座椅２的支撑框架２２靠置于界限件４２及支撑块４４顶端后，随之将前座椅２前移，使支撑框架２２前端的卡柱４１进入界限件４２所具有的定位缺口４２２内，随之以手部握持凸片４３３枢转扣钩板４２而由定位于缺口　４３２扣嵌支撑框架２２后端的卡柱４１；如此，前座椅２的支撑框架２２所具有的卡柱４１在受到界限件４２与扣钩板４３的卡挡和嵌扣后，支撑框架２２便无法在座椅定位杆１３上，作任意的前后移位与上提，而能有一稳固的定位；若前座椅２欲再转向与后座椅３同向时，则由扳转扣板４３及后移支撑框架２２而使定位缺口４３２、４２２分别脱离卡柱４１，再作前座椅２的转向及定位。

图６是本实用新型的前、后座椅相向而立的婴儿车的透视图，其示出本实用新型在前座椅２的定位结构４设置下，将使之便利迅捷的操作，可将原与后座椅３同向而立的前座椅２，转向而与后座椅３相向对应而立，使乘坐于上的婴儿可做面对面的嬉戏逗玩。

图 1


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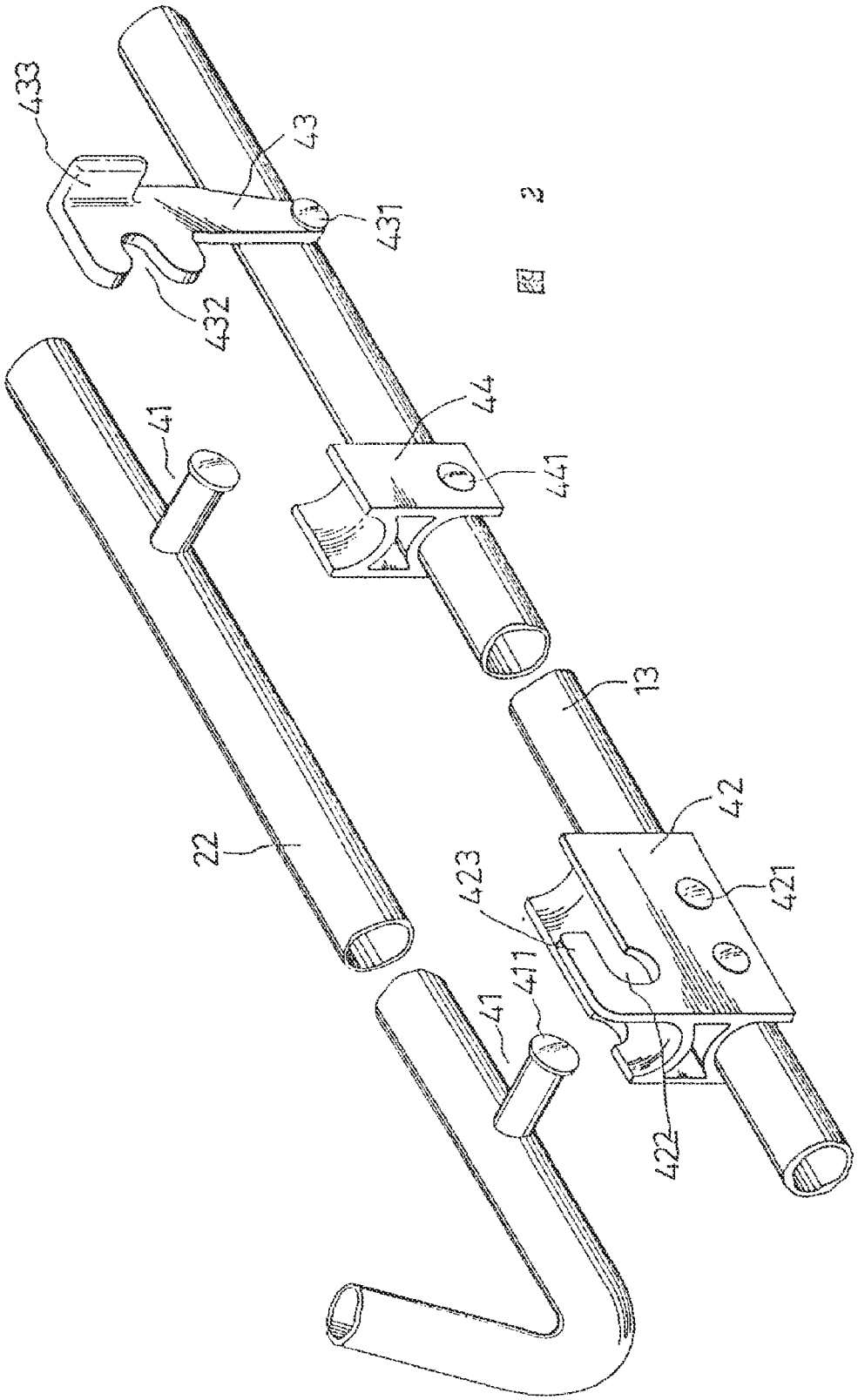


圖 2

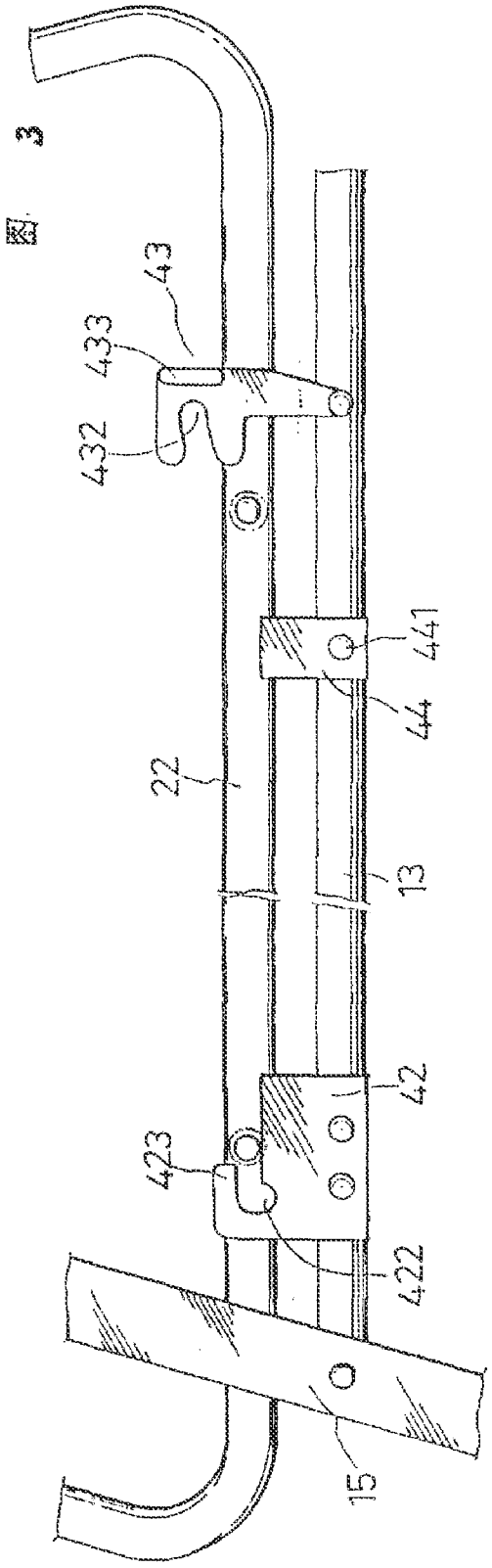

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图 3

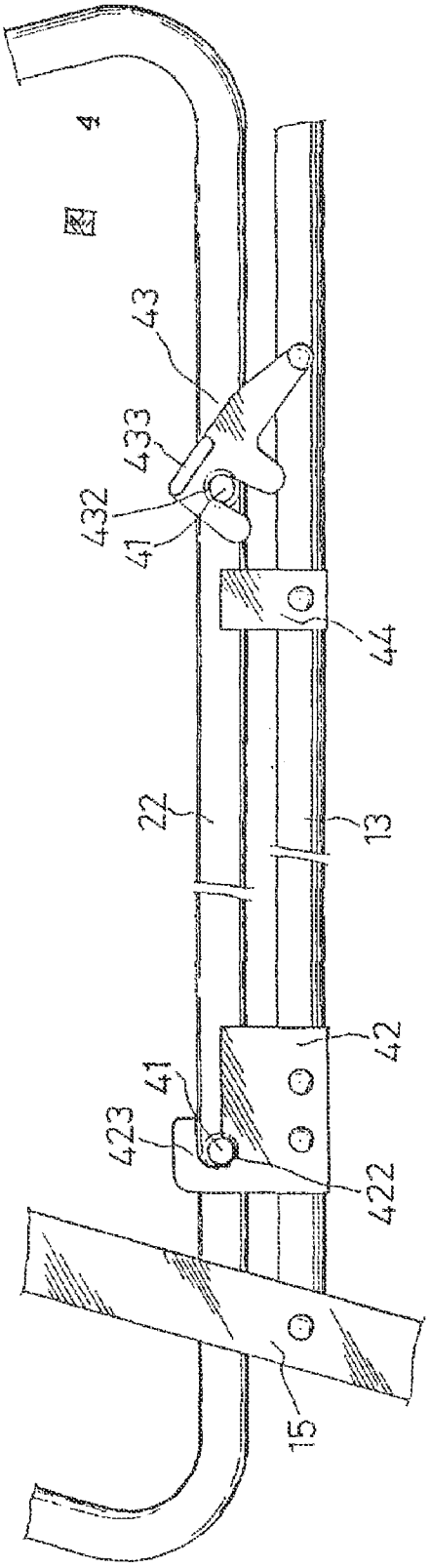

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图 4

图 5

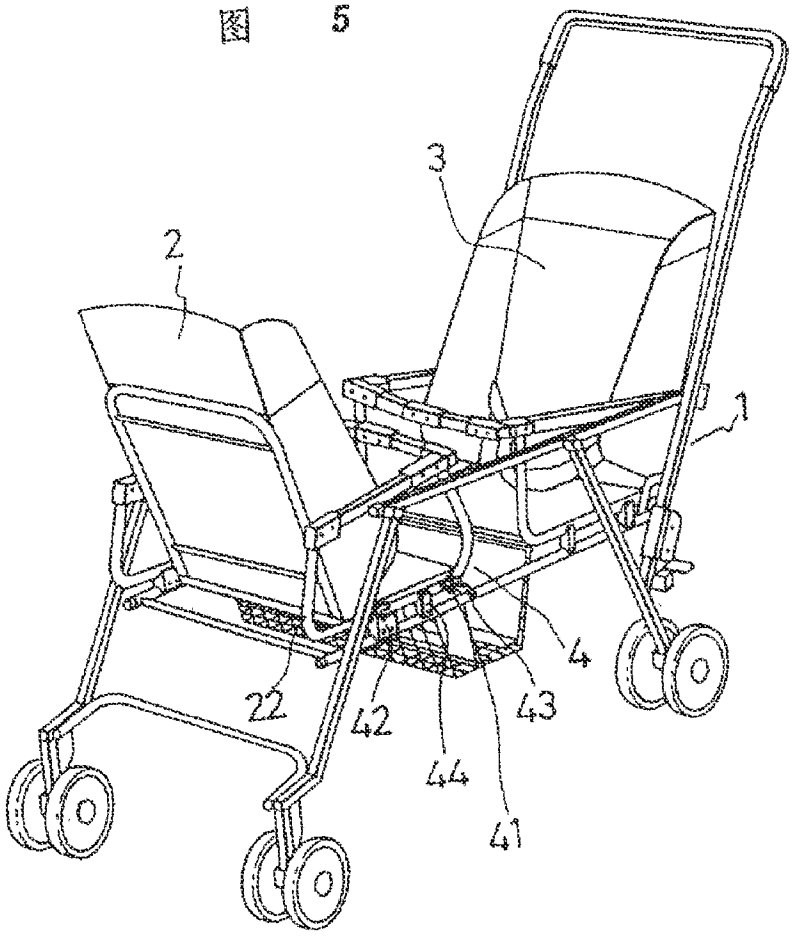
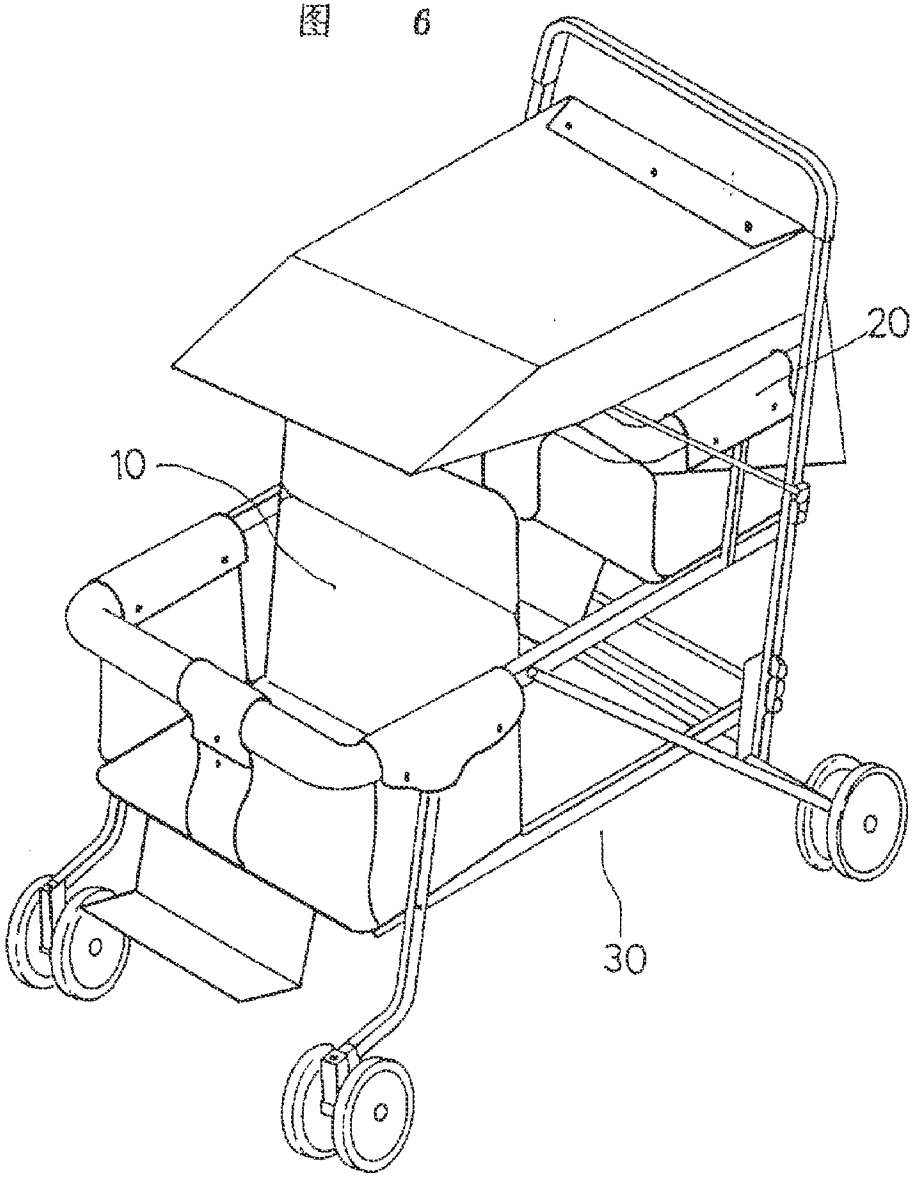


图 6



Espacenet

CN2759883Y Baby carriage seat folding construction

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Baby carriage seat folding construction

Abstract

The utility model relates to a baby carriage seat folding structure used for being arranged a folding baby carriage skeleton. The utility model is characterized in that the baby carriage seat folding structure comprises a pair of support frames, a seat frame, a backrest support frame and a connecting rod group, wherein the support frames are connected with the baby carriage skeleton; the tail ends of the support frames are provided with a pair of segment bases. One end of the seat frame is pivoted at the support frames; both ends of the backrest support frame are respectively pivoted at the segment bases. The connecting rod group can be close following the folding of the backrest support frame and the seat frame, and the connecting rod group is pivoted at the seat frame and between the backrest support frame and the support frames. The utility model can fold a front seat or a rear seat respectively so as to contain other articles on the occasion of carrying no children. Besides, the utility model can ensure small volume after the folding of the baby carriage skeleton and has the advantages of simple structure and convenient operation.

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[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
B62B 9/00 (2006.01)

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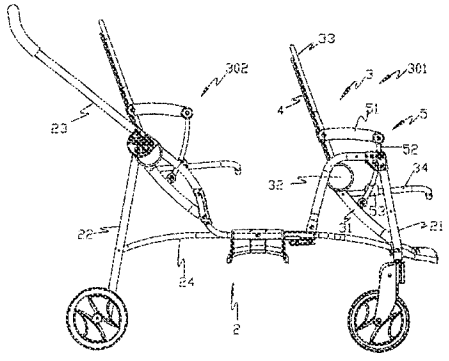
权利要求书 3 页 说明书 6 页 附图 7 页

[54] 实用新型名称

一种婴儿车座位收折结构

[57] 摘要

一种婴儿车座位折收结构，供配置于一可折收之婴儿车骨架上，其特征是，包括：一对支撑架，其与该可折收之婴儿车骨架连接，并在其末端设置有一对分段座；一座架，其一端枢接于该对支撑架；一靠背支架，其两端分枢接于该分段座；及一可随该靠背支架与该座架的折收而靠拢的连杆组，其枢接于该靠背支架与该支撑架之间并枢接座架。本实用新型可单独折收前座位或后座位，以供未承载婴童时得置放其它物品，并能使婴儿车骨架收折后体积较小，而且结构简单，操作方便。



1、一种婴儿车座位折收结构，供配置于一可折收之婴儿车骨架（2）上，其特征是，包括：

一对支撑架（31），其与该可折收之婴儿车骨架（2）连接，并在其末端设置有一对分段座（32）；

一座架（34），其一端枢接于该对支撑架（31）；

一靠背支架（33），其两端分别枢接于该分段座（32）；及

一可随该靠背支架（33）与该座架（34）的折收而靠拢的连杆组（5），其枢接于该靠背支架（33）与该支撑架（31）之间并枢接座架（34）。

2、根据权利要求 1 所述的一种婴儿车座位折收结构，其特征是该分段座（32）包括复数个定位部（321），藉该定位部（321）与靠背支架（33）形成固定，供操作者选择调整该靠背支架（33）与该座架（34）不同固定的夹角角度。

3、根据权利要求 1 或 2 所述的一种婴儿车座位折收结构，其特征是该靠背支架（33）进一步的枢接有一调整杆（4），该调整杆（4）与该分段座（32）的定位部（321）形成定位。

4、根据权利要求 1 或 2 所述的一种婴儿车座位折收结构，其特征是该定位部（321）为一凹槽。

5、根据权利要求 1 所述的一种婴儿车座位折收结构，其特征是该连杆组（5）包括有一第一连杆（51）、一第二连杆（52）以及一滑套（53），其中该滑套（53）可滑动的套接于该座架（34）的两侧，而该第一连杆（51）的一端枢接于该靠背支架（33）的侧边，另一端则与该第二连杆（52）的一端枢接，而该第二连杆（52）的另一端则枢接于该支撑架（31），并

于其两端之间枢接该滑套（53）。

6、根据权利要求 5 所述的一种婴儿车座位折收结构，其特征是该第一连杆（51）于该座位骨架（3）展开时位于该座架侧边并具一定高度，形成可供婴童支撑手部的扶手。

7、一种婴儿车座位折收结构，供配置于一可折收之婴儿车骨架（2）上，其特征是，包括

一对支撑架（31），其与该可折收之婴儿车骨架（2）连接，并在其末端设置一对分段座（32）；

一靠背支架（33），其一端枢接于该分段座（32）；

一座架（34），其一端枢接于该对分段座（32）；及

一可随该靠背支架（33）与该座架（34）的折收而靠拢的连杆组（5），其枢接于该靠背支架（33）与支撑架（31）之间并枢接座架（34）。

8、根据权利要求 7 所述的一种婴儿车座位折收结构，其特征是该分段座（32）包括复数个定位部（321），藉该定位部（321）与靠背支架（33）形成固定，供操作者选择调整该靠背支架（33）与该座架（34）不同固定的夹角角度。

9、根据权利要求 7 所述的一种婴儿车座位折收结构，其特征是该靠背支架（33）枢接有一调整杆（4），该调整杆（4）与该分段座（32）的定位部（321）形成定位。

10、根据权利要求 7 所述的一种婴儿车座位折收结构，其特征是该连杆组（5）包括有一第一连杆（51）、一第二连杆（52）以及一滑套（53），其中该滑套（53）可滑动的套接于该座架（34）的两侧，而该第一连杆（51）的一端枢接于该靠背支架（33）的侧边，另一端则与该第二连杆

（52）的一端枢接，且该第二连杆（52）的另一端枢接于该支撑架（31），并于两端之间枢接该滑套（53）。

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一种婴儿车座位收折结构

【技术领域】

本实用新型涉及一种婴儿车座位收折结构。

【背景技术】

目前所见的婴儿车构造大多都具有可收折的功能，让婴儿车于收藏、搬运或携带的时候都能透过收折而缩小体积，减少运输及存放的空间。

一般所见的可收折的婴儿车都是由前脚架、后脚架、椅座、推把架等构件所组成，其中椅座更包括有座架及靠背架两部份；除了单人座位之婴儿车以外，尚具有包括前座位以及后座位之双人座婴儿车，而为使其方便收藏、搬运或携带，故其双人座的婴儿车骨架，通常亦具有可收折的功能。

由于该双人座之椅座，一般随着骨架折收，故为符合折收后体积较小的目的，该椅座的骨架通常必须配合骨架各杆架的位置或高度，无法适当的设定椅座高度，尤其在具有前、后座位的双人座婴儿车，若前、后座位具有不同高度时则收折后必须具有较大的体积。另外，由于传统的双人座婴儿车，该前、后椅座骨架系随骨架展开与收折，故仅于单一椅座使用时，并无法将另一个无使用的椅座折收而具有较大空间可置放其它物品。

【发明内容】

本实用新型的目的在于针对现有的双人座婴儿车，其收折后具有较大的骨架体积以及无法单独折收未使用的椅座以供置放其它物品的缺点，提供一种可单独折收前座位或后座位，以供未承载婴童时得置放其它物品，并能使婴儿车骨架收折后体积较小的婴儿车座位收折结构。

本实用新型的目的是这样实现的：

一种婴儿车座位折收结构，供配置于一可折收之婴儿车骨架上，其特征是，包括：

一对支撑架，其与该可折收之婴儿车骨架连接，并在其末端设置有一对分段座；

一座架，其一端枢接于该对支撑架；

一靠背支架，其两端分别枢接于该分段座；及

一可随该靠背支架与该座架的折收而靠拢的连杆组，其枢接于该靠背支架与该支撑架之间并枢接座架。

如上所述的一种婴儿车座位折收结构，其特征是该分段座包括复数个定位部，藉该定位部与靠背支架形成固定，供操作者选择调整该靠背支架与该座架不同固定的夹角角度。

如上所述的一种婴儿车座位折收结构，其特征是该靠背支架进一步的枢接有一调整杆，该调整杆与该分段座的定位部形成定位。

如上所述的一种婴儿车座位折收结构，其特征是该定位部为一凹槽。

如上所述的一种婴儿车座位折收结构，其特征是该连杆组包括有一第一连杆、一第二连杆以及一滑套，其中该滑套可滑动的套接于该座架的两侧，而该第一连杆的一端枢接于该靠背支架的侧边，另一端则与该第二连杆的一端枢接，而该第二连杆的另一端则枢接于该支撑架，并于其两端之间枢接该滑套。

如上所述的一种婴儿车座位折收结构，其特征是该第一连杆于该座位骨架展开时位于该座架侧边并具一定高度，形成可供婴童支撑手部

的扶手。

一种婴儿车座位折收结构，供配置于一可折收之婴儿车骨架上，其特征是，包括

一对支撑架，其与该可折收之婴儿车骨架连接，并在其末端设置一对分段座；

一靠背支架，其一端枢接于该分段座；

一座架，其一端枢接于该对分段座；及

一可随该靠背支架与该座架的折收而靠拢的连杆组，其枢接于该靠背支架与支撑架之间并枢接座架。

如上所述的一种婴儿车座位折收结构，其特征是该分段座包括复数个定位部，藉该定位部与靠背支架形成固定，供操作者选择调整该靠背支架与该座架不同固定的夹角角度。

如上所述的一种婴儿车座位折收结构，其特征是该靠背支架枢接有一调整杆，该调整杆与该分段座的定位部形成定位。

如上所述的一种婴儿车座位折收结构，其特征是该连杆组包括有一第一连杆、一第二连杆以及一滑套，其中该滑套可滑动的套接于该座架的两侧，而该第一连杆的一端枢接于该靠背支架的侧边，另一端则与该第二连杆的一端枢接，且该第二连杆的另一端枢接于该支撑架，并于两端之间枢接该滑套。

本实用新型利用一对连接于可折收骨架上的支撑架，并于支撑架连接靠背支架与座架，其中于该靠背支架与座架间枢接一连杆组并枢接座架，并使该靠背支架与座架得以相对折收靠拢，藉以达到得单独折收前座位或后座位，以供未承载婴童时得置放其它物品，另，由于该座架可随靠

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背支架相对折收，使本实用新型具有骨架收折后体积较小的效果。而且结构简单，操作方便。

【附图说明】

下面结合附图对本实用新型作进一步说明：

图 1 是本实用新型的婴儿车骨架结构侧视示意图。

图 2 是本实用新型的座位骨架立体示意图

图 3 是本实用新型的座位骨架侧视及倾躺示意图。

图 4 是本实用新型使用于座位骨架折收后示意图。

图 5 是本实用新型使用于座位骨架换向后示意图。

图 6 是本实用新型使用于座位骨架于可折收骨架单独折收后示意图。

图 7 是本实用新型使用于整体骨架折收后示意图。

图号说明

2：折收骨架	3：座位骨架
21：前脚杆	22：后脚杆
23：手推杆	24：连杆
31：支撑架	32：分段座
321：定位部	33：靠背支架
34：座架	5：连杆组
51：第一连杆	52：第二连杆
53：滑套	301：前座位
302：后座位	4：调整杆

【具体实施方式】

请参阅图1—图4，依据本实用新型所实施的婴儿座位折收结构，含有

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座位骨架3可供与一可折收之婴儿车骨架2个别折收，以具有收折后较小体积以及若于可折收骨架展开时而座位不使用时，可将其折收以置放其它物品。

本实用新型包括一可折收之婴儿车骨架2及一座位骨架3，其中可折收的婴儿车骨架2，在本实施例当中，为一双人座的婴儿车骨架，包括前脚杆21、后脚杆22、手推杆23以及连接杆24等杆件所彼此枢接而成，具有一展开之使用状态以及一收折状态。

座位骨架3，包括前座位301及后座位302，其中该前、后座位301、302分别包括一对支撑架31、一靠背支架33、一座架34及一连杆组5。

其中支撑架31，属可拆式的与该可折收婴儿车骨架2连接，该对支撑架31之上端分别连接有一分段座32，其中该分段座32设置有复数个定位部321，在本实施例当中该定位部321形成于该圆弧边缘的凹槽(如图3所示)。

靠背支架33，略呈ㄇ字型，其两端分枢接于该分段座32，而该靠背支架33进一步的枢接有一调整杆4，其中该调整杆4可与该分段座32的定位部33形成定位，使该靠背支架33具有可调整至各种倾斜角度(如图3、4所示)；

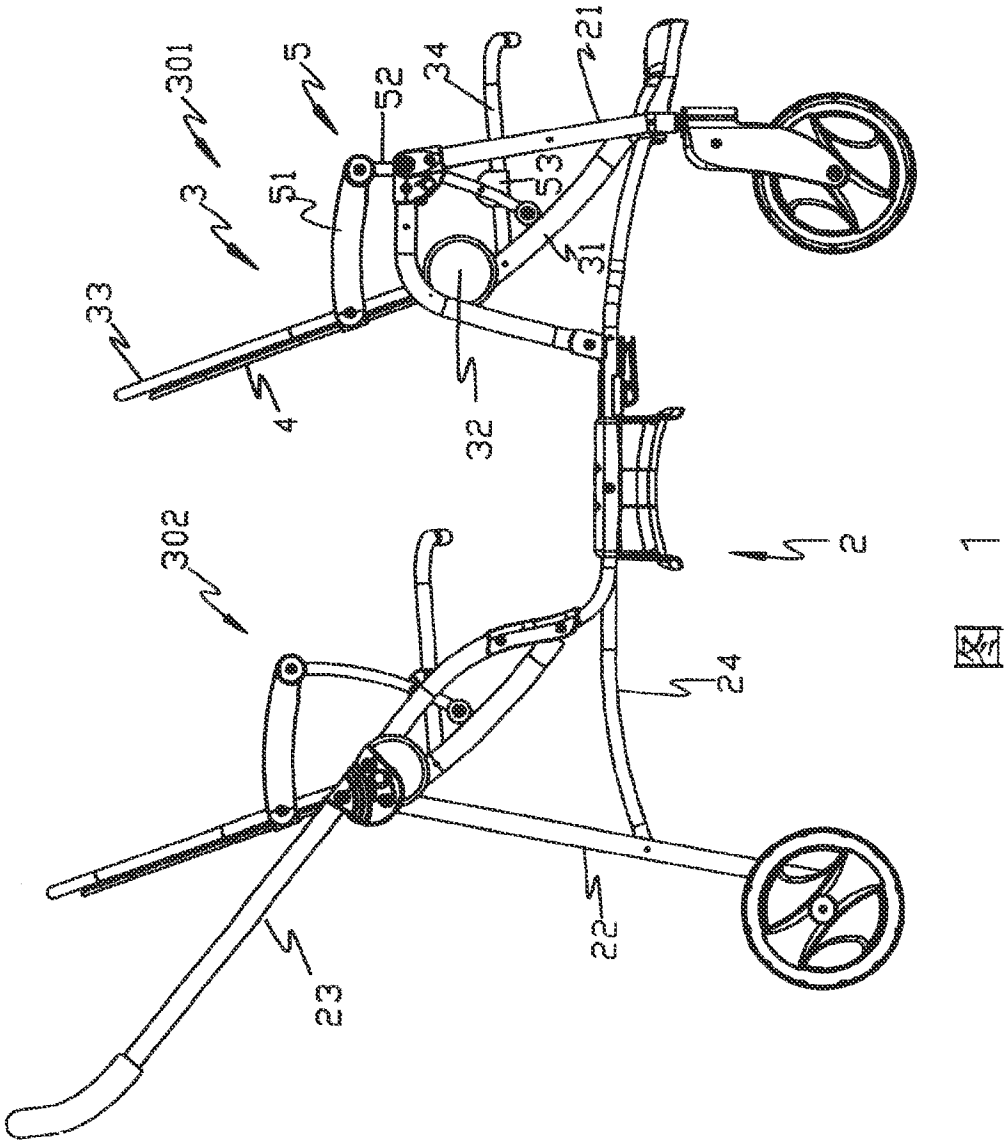
座架34，略呈ㄇ字型，其两端分别枢接于该对支撑架31或其末端枢接于分段座32的一侧边，以配合靠背支架33调整形成一适当之夹角，以穿置织布（图中未示）后供婴童乘坐。

连杆组5，枢接于该靠背支架33与支撑架31之间并枢接座架34，以连动靠背支架33与座架34彼此相对靠拢折收;该连杆组5包括有一第一连杆51、第二连杆52以及一滑套53，其中该滑套53可滑动的套接于该座架34的两侧，而该第一连杆51的一端枢接于靠背支架33的侧边，另一端则与第二连杆52的一端枢接，而第二连杆52的另一端枢接于支撑架31，并于其两端

间枢接滑套53。由连杆组5连接，当该靠背支架33与座架34展开一夹角供婴童乘座时，该第一连杆51位于距该座架34侧边一定高度，以形成供婴童支撑手部的扶手；操作者并可依分段座32不同角度的定位部321，供靠背支架33上的调整杆4选择定位，使靠背支架33得与座架34调整大于九十度至一百八十度之间的适合婴童倾躺之夹角乘座空间；而当操作者欲折收时，可操作该调整杆4，并使该靠背支架33朝向座架34靠拢转动，并藉由连杆组5之连动，由该滑套53于座架上滑动而推动该座架34相对折收成小于九十度之夹角收折位置。

另在本实施例当中，该对支撑架 31 可更换与可折收骨架 2 的连接位置，进而选择改变座位骨架 3 的方向(如图 5 所示)；而由于本实用新型的座架 34 与靠背支架 33 与连杆组 5 枢接于支撑架 31 上，并未与可折收骨架 2 具有连动关系，故得与该可折收骨架 2 个别独立折收(如图 6、7 所示)，由于该座架 34 与靠背支架 33 均得以相对移动折收，可具有收折后较小的体积，以及该靠背支架 33 得与收折骨架 2 个别折收而提供操作者于未承载婴童时可将其折收而置放其它物品的效果。

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301
5
52
34
21
3
51
53
31
33
4
32
2
1
302
24
22
23

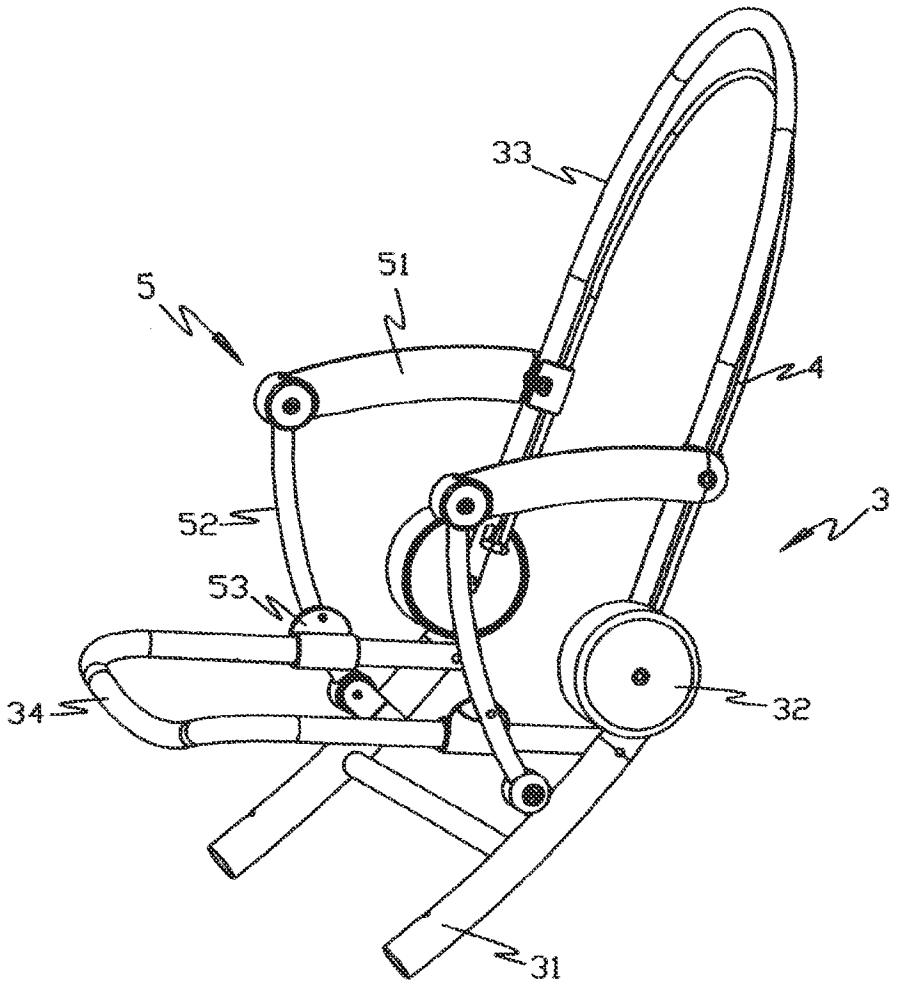


图 2

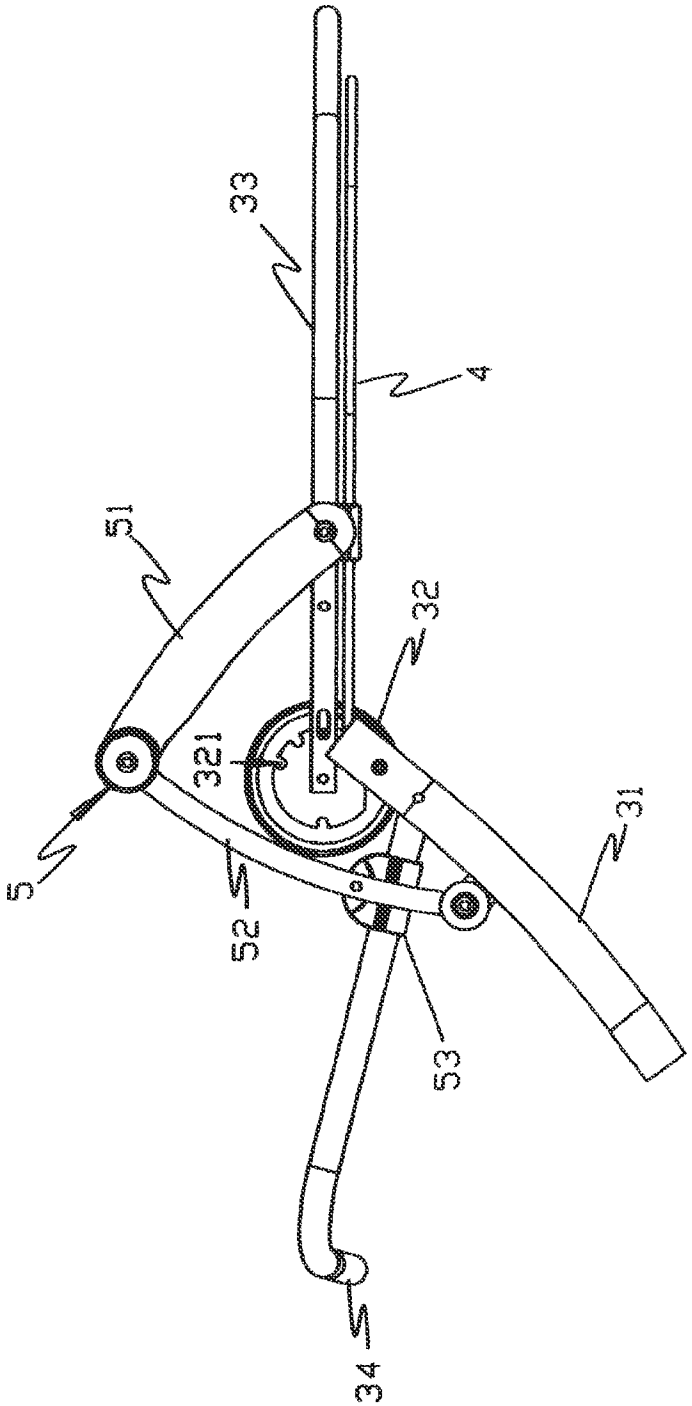


图 3

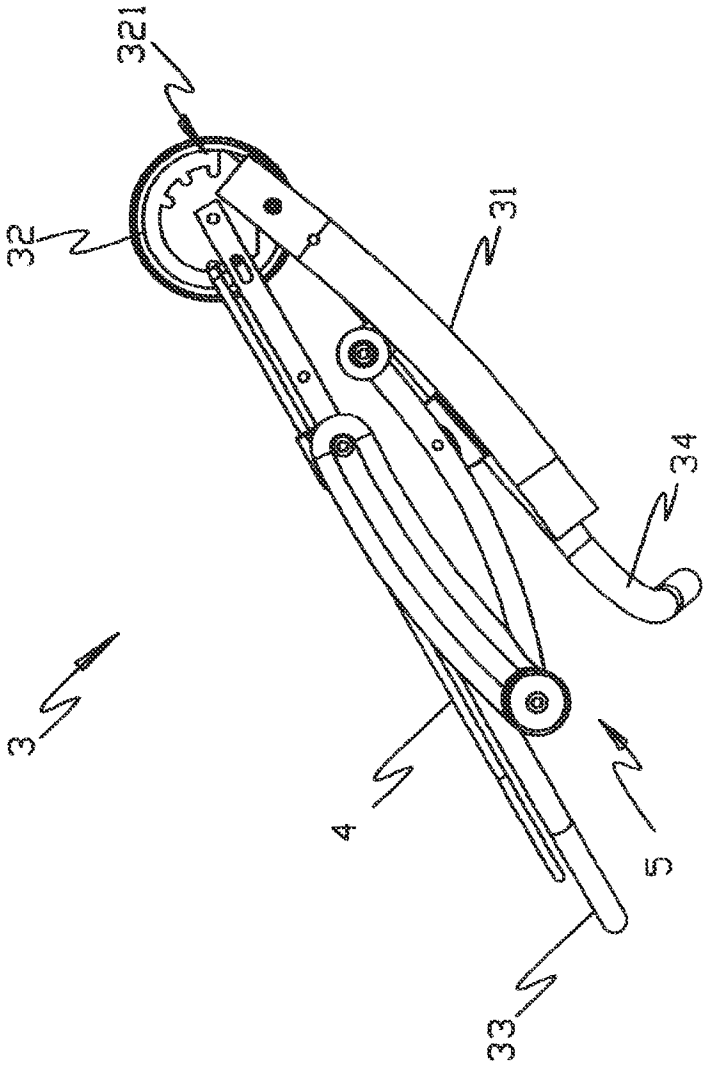


图 4

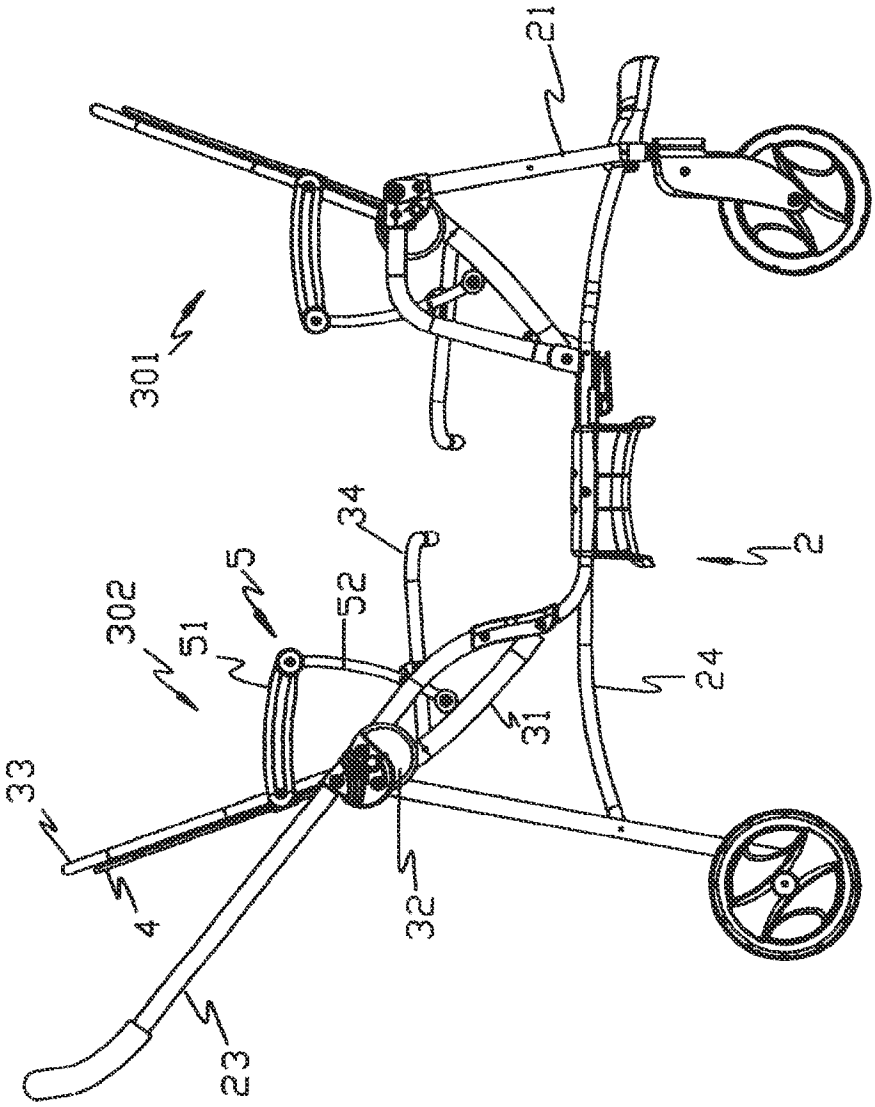


图 5

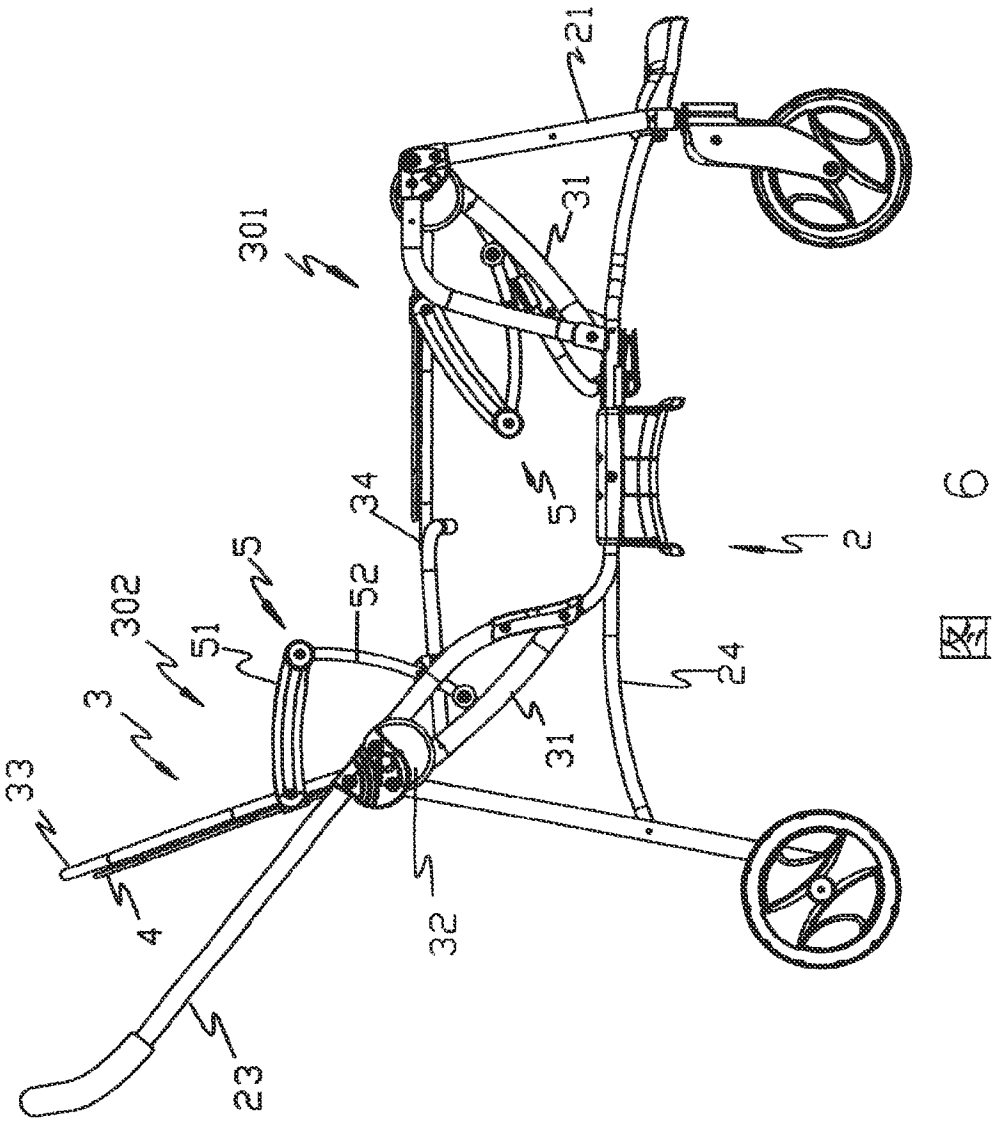


图 6

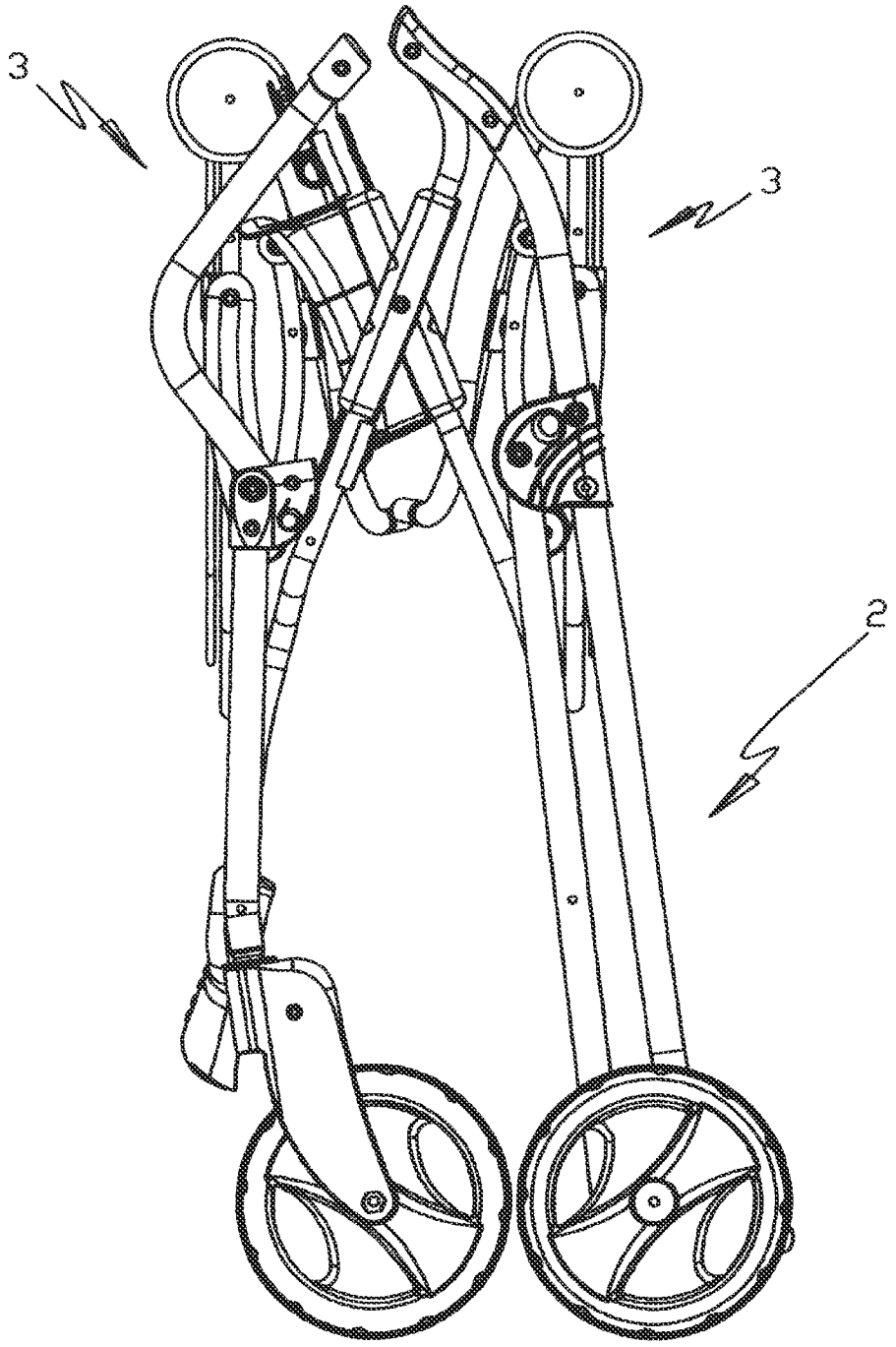


图 7

Espacenet

CN2841450Y Infant's cart seat bearing-seat

Applicants: GU JINGDE [CN]

Inventors: GU JINGDE [CN]

Classifications:
IPC ***B62B9/00;***

Priorities: CN200520055399U 2005-03-01

Application: CN200520055399U·2005-03-01

Publication: CN2841450Y·2006-11-29

Published as: CN2841450Y

Infant's cart seat bearing-seat

Abstract

The utility model discloses an infant cart seat bearing seat, which comprises a fixing part and a connecting part, wherein the fixing part is fixed on an infant cart frame; the connecting part is a rod-shaped body on which a clamping table is arranged; the clamping table can be clamped or fixed on a clamping hook on an infant cart chair or an automobile safety chair. Therefore, the people can fix an infant cart selectively on the infant cart chair or the automobile safety chair according to requirements. The utility model with convenient operation can achieve the purpose of fixing a baby on the infant cart without taking away the baby from the automobile safety chair.

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[12] 实用新型专利说明书

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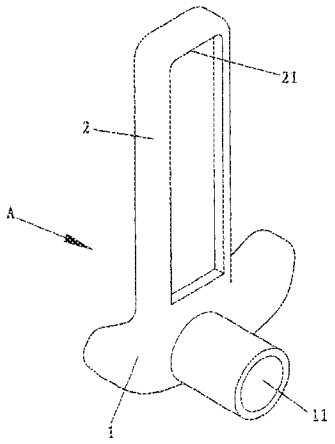
权利要求书 1 页 说明书 2 页 附图 5 页

[54] 实用新型名称

婴儿车椅座承接座

[57] 摘要

本实用新型公开了一种婴儿车椅座承接座，其包括固定部及连接部，固定部固定在婴儿车的车架上，所述连接部为一杆状体，其上设有可与婴儿车椅座或汽车安全座椅上的卡钩卡合固定的卡台。这样，人们即可根据需要选择地将婴儿车椅座或汽车安全座椅固定在婴儿车车架，从而可作到不需将婴儿从汽车安全座椅上取下即可将其固定在婴儿车上的目的，使操作更方便。



1、一种婴儿车椅座承接座，其特征在于：它包括固定部及连接部，固定部固定在婴儿车的车架上，所述连接部为一杆状体，其上设有可与婴儿车椅座或汽车安全座椅上的卡钩卡合固定的卡台。

2、如权利要求 1 所述的婴儿车椅座承接座，其特征在于：所述固定部包括一固定轴孔，该固定轴孔穿设固定于婴儿车车架的一固定轴上。

3、如权利要求 1 所述的婴儿车椅座承接座，其特征在于：所述上、下连接部的对合端面之间设有具有导向作用的导柱及导槽。

4、如权利要求 2 所述的婴儿车椅座承接座，其特征在于：所述承接座与婴儿车椅座或汽车安全座椅之间设置有一连接装置，所述卡台与该连接装置上的卡钩相卡合固定。

婴儿车椅座承接座

技术领域

本实用新型涉及一种婴儿车椅座承接座。

背景技术

为满足婴儿的行车安全，目前市场上出现了一种婴儿用汽车安全座椅，大人们将婴儿固定于汽车安全座椅上，再将安全座椅固定于汽车的座位上，从而增加安全性。然而，当到达目的地后，又必须将婴儿从汽车安全座椅中解下，再将其放置于婴儿车上，这样操作十分麻烦，如果能将汽车安全座椅直接放置于婴儿车上推行则较为方便。但是，婴儿车椅座与车架通常为固定结构，即在婴儿车两侧椅座固定处设有调节结构，但不能分离，因此如欲将汽车安全座椅直接放置其上，则无法固定，从而不够安全。于是，便有业者为方便带宝宝驱车外出的父母设计了一种可方便拆装的座椅承座结构，但该结构为一单体形态的配件，使用时必须先将该配件架设于车体上，因此携带不方便，容易造成遗失，且功能单一，只能用于固定连接婴儿车椅座，而无法固定连接汽车安全座椅或婴儿提篮。

实用新型内容

本实用新型所要解决的技术问题在于提供一种婴儿车椅座承接座，其可适配多种婴儿车椅座、汽车安全座椅或婴儿提篮，使用方便、拆装容易、结构简单且适配性强。

为解决上述技术问题，本实用新型的技术解决方案是：一种婴儿车椅座承接座，其包括固定部及连接部，固定部固定在婴儿车的车架上，所述连接部为一杆状体，其上设有可与婴儿车椅座或汽车安全座椅上的卡钩卡合固定的卡台。

所述固定部包括一固定轴孔，该固定轴孔穿设固定于婴儿车车架的一固定轴上。

所述上、下连接部的对合端面之间设有具有导向作用的导柱及导槽。

所述承接座与婴儿车椅座或汽车安全座椅之间设置有一连接装置，所述卡台与该连接装置上的卡钩相卡合固定。

采用上述方案后，由于本实用新型的承接座是固定于婴儿车车架

上的，而不做为单独的一个配件，且该承接座结构简单，其上的卡台可直接与婴儿车椅座、汽车安全座椅或婴儿提篮上的卡钩卡合固定，或与一连接装置上的卡钩卡合固定，而连接装置再与婴儿车椅座等连接，从而可选择地将婴儿车椅座、汽车安全座椅或婴儿提篮固定安装于婴儿车车架，也就是说，婴儿车椅座与车架成为可拆卸的结构，这样，人们在带着婴儿行车后，即可将婴儿车的椅座从其车架上拆下，再将放置有婴儿的汽车安全座椅整个安装于婴儿车车架上，从而使操作更方便。

附图说明

图 1 是本实用新型的立体示意图；
图 2 是本实用新型的使用状态示意图；
图 3 是本实用新型与婴儿车椅座等的连接部连接剖视示意图；
图 4 是本实用新型与婴儿车椅座等的连接部连接剖视动作图；
图 5 是本实用新型通过连接装置与婴儿车椅座等连接示意图。

具体实施方式

请如图 1 所示，本实用新型所述的婴儿车椅座承接座 A 包括固定部 1 及连接部 2，且两者可一体成型，也可分体设置。其中：

所述固定部 1 固定在婴儿车的车架上，其可包括一固定轴孔 11，该固定轴孔 11 穿设固定于车架的一固定轴上。

所述连接部 2 为一杆状体，其上设有卡台 21。

如图 2 所示，所述承接座 A 在使用时，是将其固定部 1 的固定轴孔 11 穿设于婴儿车车架上的一固定轴 3 上，再将其固定；而所述连接部 2 的卡台 21 可与婴儿车椅座或汽车安全座椅上连接部 4 的卡钩 51 相卡合固定（如图 3、4 所示），该卡钩 51 又受一弹性按钮 52 连带，从而可方便将连接部 4 从承接座 A 上取下，进而方便固定安装婴儿车椅座或汽车安全座椅。

又如图 5 所示，本实用新型也可在婴儿车椅座或汽车安全座椅与承接座 A 之间再设置一连接装置 6，该连接装置 6 包括上连接部 61 和下连接部 62（其具体结构及连接方式并非本实用新型的重点，故不赘述），而所述下连接部 62 上也设有弹性卡钩（图中未示出）与承接座 A 的卡台 21 相卡合固定，从而可方便将连接装置 6 固定于承接座 A 上取下，而连接装置 6 的上连接部 61 又再与婴儿车椅座或汽车安全座椅连接固定，这样即可将方便固定安装婴儿车椅座或汽车安全座椅。

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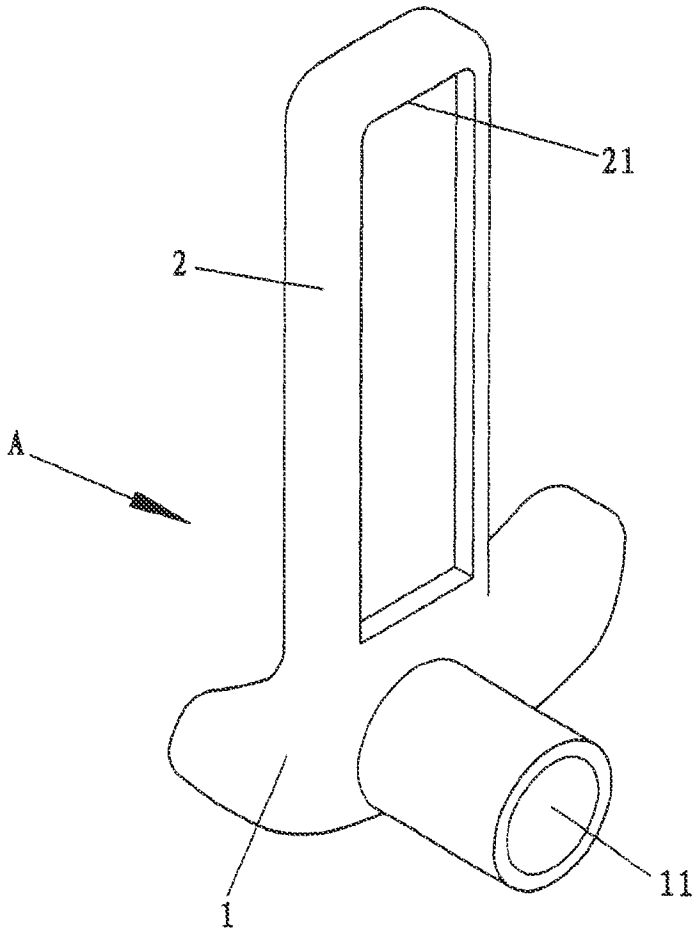


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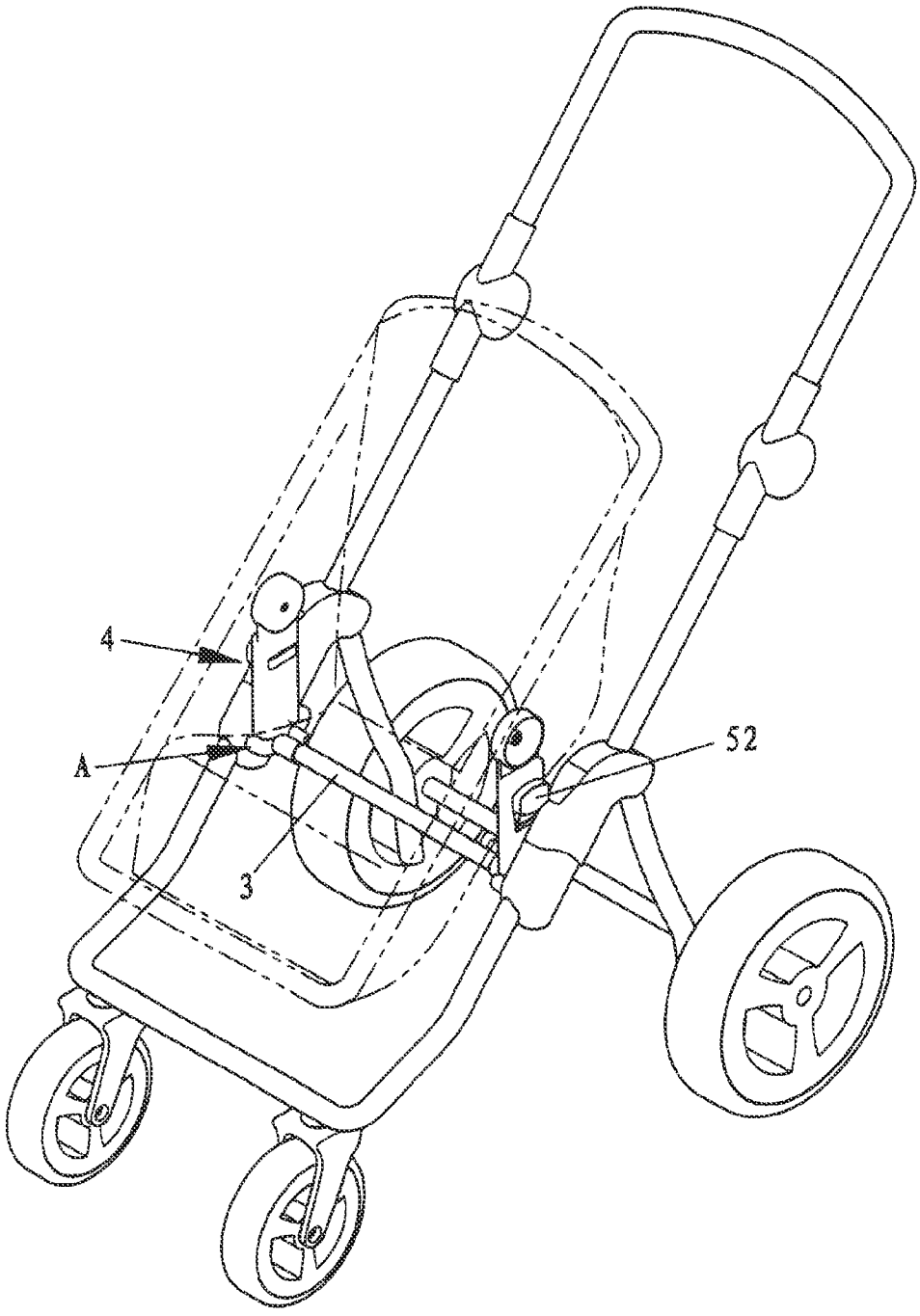


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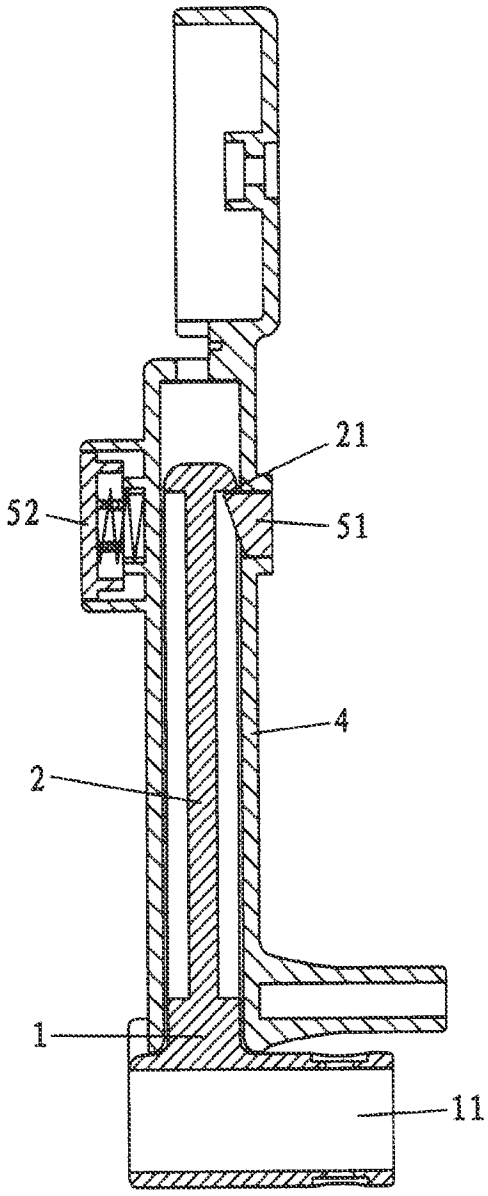


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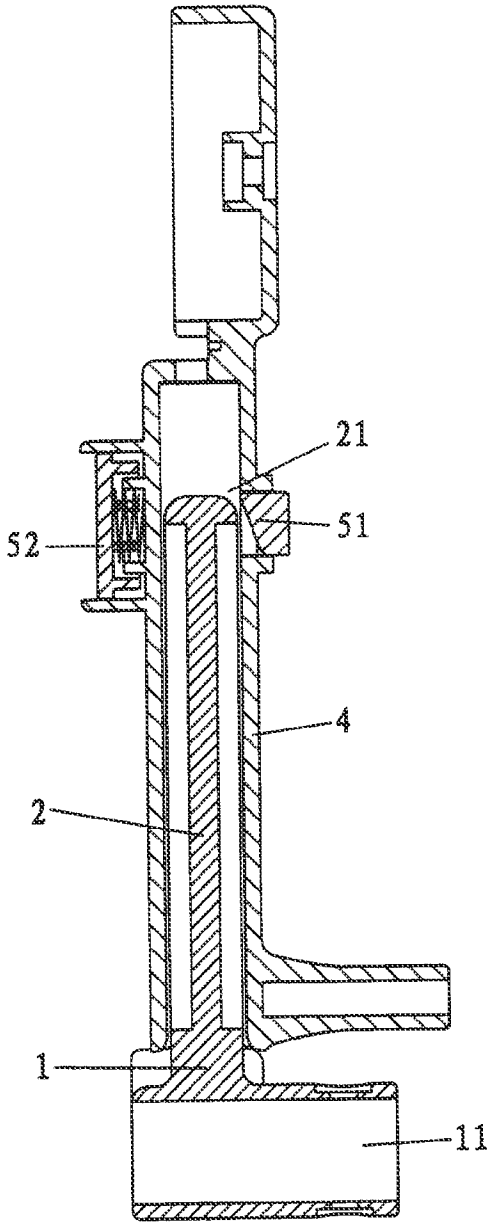


图4

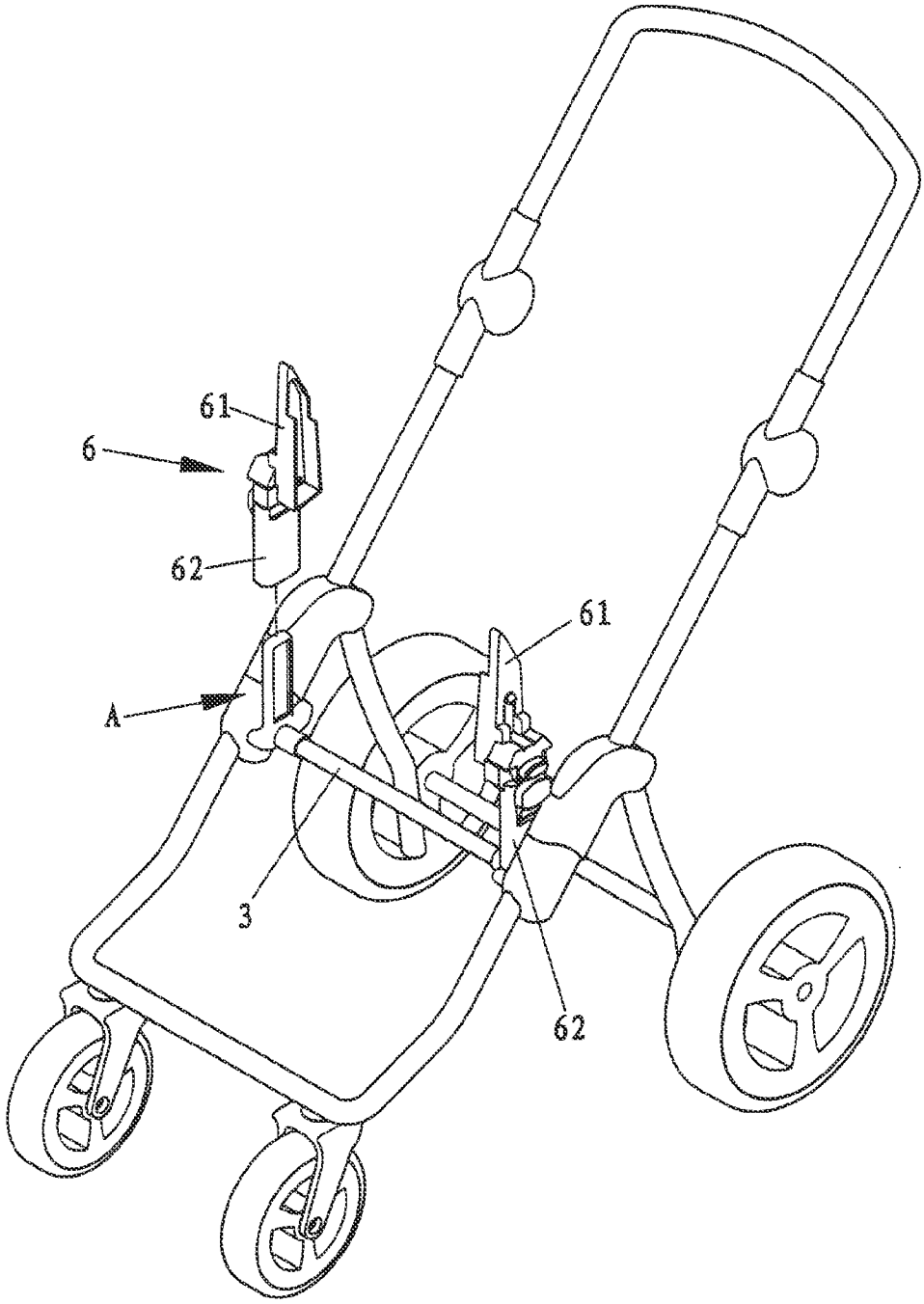


图5

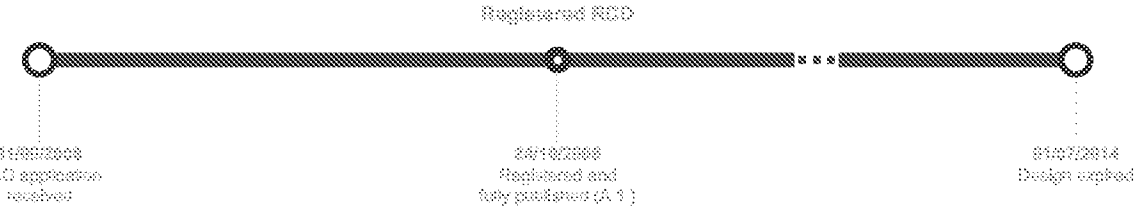
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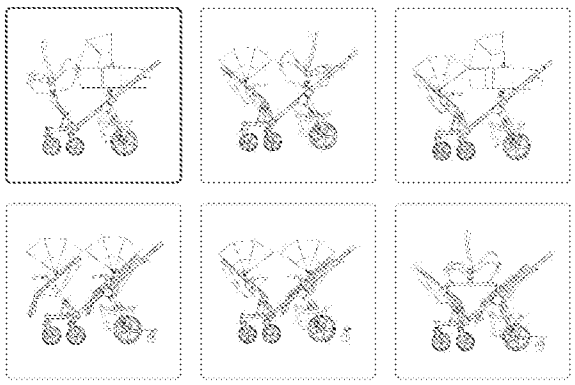
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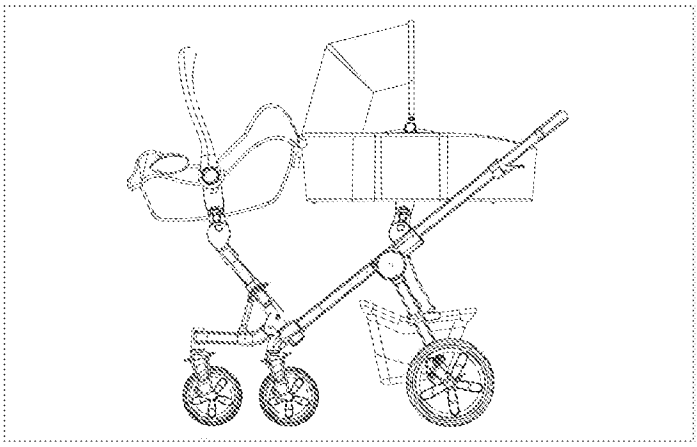
Timeline



Graphic representation



1 / 2



Design information

Design number	**001001572-0002**	Filing language	**ENGLISH**
Name		Second language	**FRENCH**
Filing date	**11/09/2008**	Reference	**ALD08-058(1-2)LIS**
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Expiry date	**11/09/2013**	Verbal element	
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Legal status	**Legal entity**	Town	**Yung Kang City, Tainan Hsien**		Hidden. You can set your contact details to be publicly available via the User Area.
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Publications

Bulletin number	Date	Section	Description
2008/223	24/10/2008	A.1	Applications published under Articles 48 and 50 CDR
2009/137	17/07/2009	B.9.1	Change of name(s) and professional address(es) of the representative(s)
2012/125	03/07/2012	B.9.1	Change of name(s) and professional address(es) of the representative(s)
2014/121	03/07/2014	C.2	Expired registrations

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Recordals

Bulletin number	Date	Section	Filing number	Title
2009/137	17/07/2009	B.9.1	003219783	Change of representative name(s) and address(es)
2012/125	03/07/2012	B.9.1	005931674	Change of representative name(s) and address(es)

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Appeals

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Decisions

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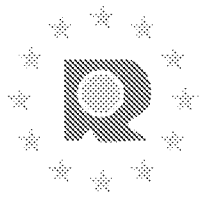
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Bibliographic data: CN2784272 (Y) — 2006-05-31

Go-cart for children

Inventor(s): SHEN HAIDONG [CN] ± (HAIDONG SHEN)

Applicant(s): GOODBABY CHILD PRODUCTS CO LTD [CN] ± (GOODBABY CHILD PRODUCTS CO., LTD)

Classification: **- international:** ***B62B7/00; B62B9/00***
- cooperative:

Application number: CN2005269647U 20050104

Priority number(s): CN2005269647U 20050104

Abstract of CN2784272 (Y)

The utility model relates to a go-cart for children, which comprises a frame of the go-cart, front wheels arranged at the bottom-front part of the frame of the go-cart, rear wheels arranged at the bottom-rear part of the frame of the go-cart, and a first seat arranged on the frame of the go-cart, wherein the first seat is rotationally connected with the frame of the go-cart; in addition, rotary axis is almost vertical to the horizontal surface; a locking device for position is arranged between the first seat and the frame of the go-cart. When the direction of the first seat is needed to change, the locking device for position is unlocked and the first seat is rotated so that the direction of the first seat corresponding the frame of the go-cart is changed; then the first seat and the frame of the go-cart are locked again, and the direction of the first seat can be changed.

[19] 中华人民共和国国家知识产权局

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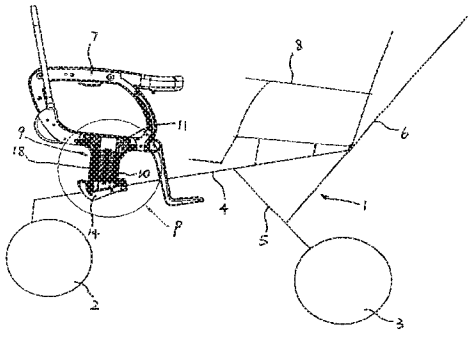
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[54] 实用新型名称

儿童推车

[57] 摘要

一种儿童推车，包括推车车架、设置在推车车架的底前部的前轮、设置在推车车架的底后部的后轮、设置在推车车架上的第一座位，第一座位与推车车架相转动连接，并且转动的轴心线与水平面大致上相垂直，第一座位与推车车架之间具有位置锁定装置。当第一座位需要换向时，只需将位置锁定装置解锁，转动第一座位，使得第一座位相对推车车架换向，再重新将第一座位与推车车架锁定，便实现第一座位的换向。



1、一种儿童推车，包括推车车架[1]、设置在所述的推车车架[1]的底前部的前轮[2]、设置在所述的推车车架[1]的底后部的后轮[3]、设置在所述的推车车架[1]上的第一座位[7]，其特征在于：所述的第一座位[7]与所述的推车车架[1]相转动连接，并且转动的轴心线与水平面大致上相垂直，所述的第一座位[7]与所述的推车车架[1]之间具有位置锁定装置[9]。

2、根据权利要求 1 所述的儿童推车，其特征在于：所述的推车车架[1]上固定设置有固定座[10]，所述的第一座位[7]上设有底盘[11]，所述的固定座[10]与所述的底盘[11]之间相转动连接。

3、根据权利要求 2 所述的儿童推车，其特征在于：所述的位置锁定装置[9]包括滑动地设置在所述的底盘[11]或所述的固定座[10]的一个上的插销[13]、开设在所述的底盘[11]或所述的固定座[10]的另一个上的至少两个插孔[12]，所述的插销[13]具有两个工作位置，第一工作位置是锁定工作位置，所述的插销[13]插在所述的插孔[12]中，第二工作位置是解锁工作位置，所述的插销[13]脱离所述的插孔[12]。

4、根据权利要求 3 所述的儿童推车，其特征在于：所述的位置锁定装置[9]还包括操作件[14]，所述的操作件[14]与所述的插销[13]相连接。

5、根据权利要求 3 所述的儿童推车，其特征在于：所述的固定座[10]上开有导向槽[15]，所述的插销[13]滑动地插在所述的导向槽[15]内。

6、根据权利要求 5 所述的儿童推车，其特征在于：所述的插销[13]与所述的固定座[10]之间设置有弹簧[15]。

7、根据权利要求 2 所述的儿童推车，其特征在于：所述的第一座位[7]的座基架与所述的底盘[11]可拆卸地连接。

8、根据权利要求 2 所述的儿童推车，其特征在于：所述的推车车架[1]包括前轮支架[4]、与所述的前轮支架[4]的后端部相转动连接的推把[6]、与所述的推把[6]的下端部相转动连接的后轮支架[5]，所述的后轮支架[5]的前端部与所述的前轮支架[4]相转动连接。

9、根据权利要求 8 所述的儿童推车，其特征在于：所述的固定座[10]固定设置在所述的前轮支架[4]上。

儿童推车

技术领域

本实用新型涉及一种儿童推车。

背景技术

现有技术中，为了实现儿童推车上的座位相对推车车架换向（换向是指座位上的儿童相对于推车的大人呈面对面的位置或背对面的位置），儿童推车上的座位可拆卸的设置在所述的推车车架上，需要换向时，须先将座位从推车车架上拆卸下来，将所述的座位换个方向后再安装到所述的推车车架上，假如所述的座位上坐着小孩，还有必要将小孩抱下，再将座位换向，使得操作很不方便。

发明内容

本实用新型目的是提供一种儿童推车，其座位的换向可以较方便的实现。

为达到上述目的，本实用新型采用的技术方案是：一种儿童推车，包括推车车架、设置在所述的推车车架的底前部的前轮、设置在所述的推车车架的底后部的后轮、设置在所述的推车车架上的第一座位，所述的第一座位与所述的推车车架相转动连接，并且转动的轴心线与水平面大致上相垂直，所述的第一座位与所述的推车车架之间具有位置锁定装置，在位置锁定装置处于解锁状态下，所述的第一座位可以相对于推车车架转动，可以调整座位，使得座位上的儿童相对于推车的大人呈面对面的状态，或呈背对面的状态。在位置锁定装置处于锁定状态下，所述的第一座位相对于推车车架呈位置相对固定的状态，第一座位不能相对于推车车架转动。

由于上述技术方案运用，本实用新型与现有技术相比具有下列优点：由于所述的第一座位与所述的推车车架之间相转动连接，并且所述的第一座位与所述的推车车架之间具有位置锁定装置，因此当第一座位需要换向时，只需将所述的位置锁定装置解锁，转动所述的第一座位，使得第一座位相对所述的推车车架换向，再重新将所述的第一座位与所述的推车车架锁定，便实现所述的第一座位的换向。

附图说明

附图 1 为本实用新型的座位正常使用时的主视图；

附图 2 为本实用新型的座位换向过程中的主视图；

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附图 3 为本实用新型的座位换向后的主视图；

附图 4 为附图 1 的 I 处放大图；

附图 5 为附图 2 的 K 处放大图；

附图 6 为附图 3 的 P 处放大图；

其中：1、推车车架；2、前轮；3、后轮；4、前轮支架；5、后轮支架；6、推把；7、第一座位；8、第二座位；9、位置锁定装置；10、固定座；11、底盘；12、插孔；13、插销；14、操作件；15、弹簧；16、导向槽；17、第二转动轴；18、第一转动轴；

具体实施方式

参见附图 1-附图 3，一种可以双人坐的儿童推车，包括推车车架 1、设置在所述的推车车架 1 的底前部的前轮 2、设置在所述的推车车架 1 的底后部的后轮 3、设置在所述的推车车架 1 上的第一座位 7、设置在所述的推车车架 1 上的第二座位 8。所述的推车车架 1 包括前轮支架 4、与所述的前轮支架 4 的后端部相转动连接的推把 6、与所述的推把 6 的下端部相转动连接的后轮支架 5，所述的后轮支架 5 的前端部与所述的前轮支架 4 相转动连接，所述的第一座位 7 与所述的推车车架 1 相转动连接，并且转动的轴心线与水平面大致上相垂直。所述的推车车架 1 上固定设置有固定座 10，所述的固定座 10 固定设置在所述的前轮支架 4 上，所述的第一座位 7 上设有底盘 11，所述的第一座位 7 的座基架与所述的底盘 11 可拆卸地连接，所述的固定座 10 与所述的底盘 11 之间通过第一转动轴 18 相转动连接，所述的第一座位 7 与所述的推车车架 1 之间具有位置锁定装置 9。

所述的位置锁定装置 9 包括滑动地设置在所述的底盘 11 或所述的固定座 10 的一个上的插销 13、开设在所述的底盘 11 或所述的固定座 10 的另一个上的至少两个插孔 12。

如附图 4-附图 6 所示，所述的固定座 10 上开有导向槽 15，所述的插销 13 滑动地插在所述的导向槽 15 内，在所述的底盘 11 上开有两个插孔 12，该两个插孔 12 分别用于把第一座位 7 锁定于座位朝前或座位朝后的位置。所述的插销 13 具有两个工作位置，第一工作位置是锁定工作位置，所述的插销 13 插在所述的插孔 12 中，第二工作位置是解锁工作位置，所述的插销 13 脱离所述的插孔 12。所述的位置锁定装置 9 还包括操作件 14，所述的操作件 14 的一端部与所述的固定座 10 通过第二转动轴 17 相转动连接，所述的操作件 14 与

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所述的插销 13 相连接，按动所述的操作件 14，使得所述的插销 13 处于第二工作位置，所述的插销 13 脱离所述的插孔 12。

所述的插销 13 与所述的固定座 10 之间设置有弹簧 15，当所述的插销 13 处于第一工作位置时，弹簧 15 的作用力使得所述的插销 13 稳定地插在所述的插孔 12 中。

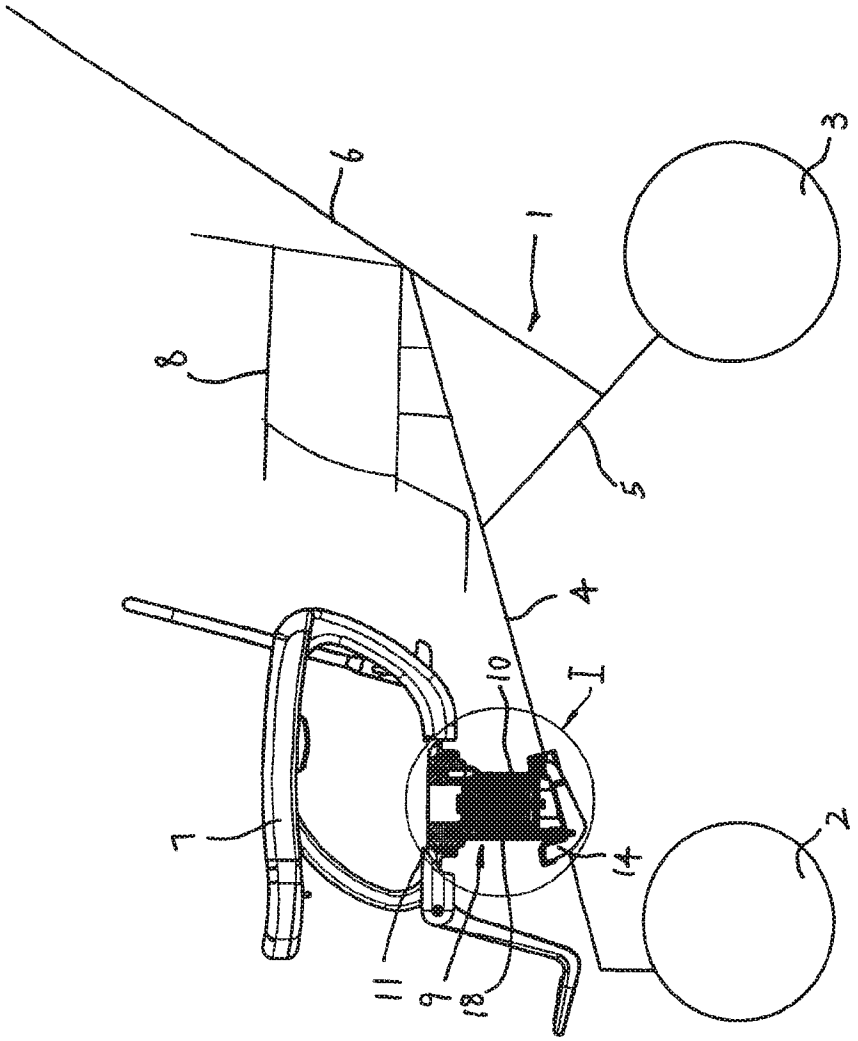


图 1

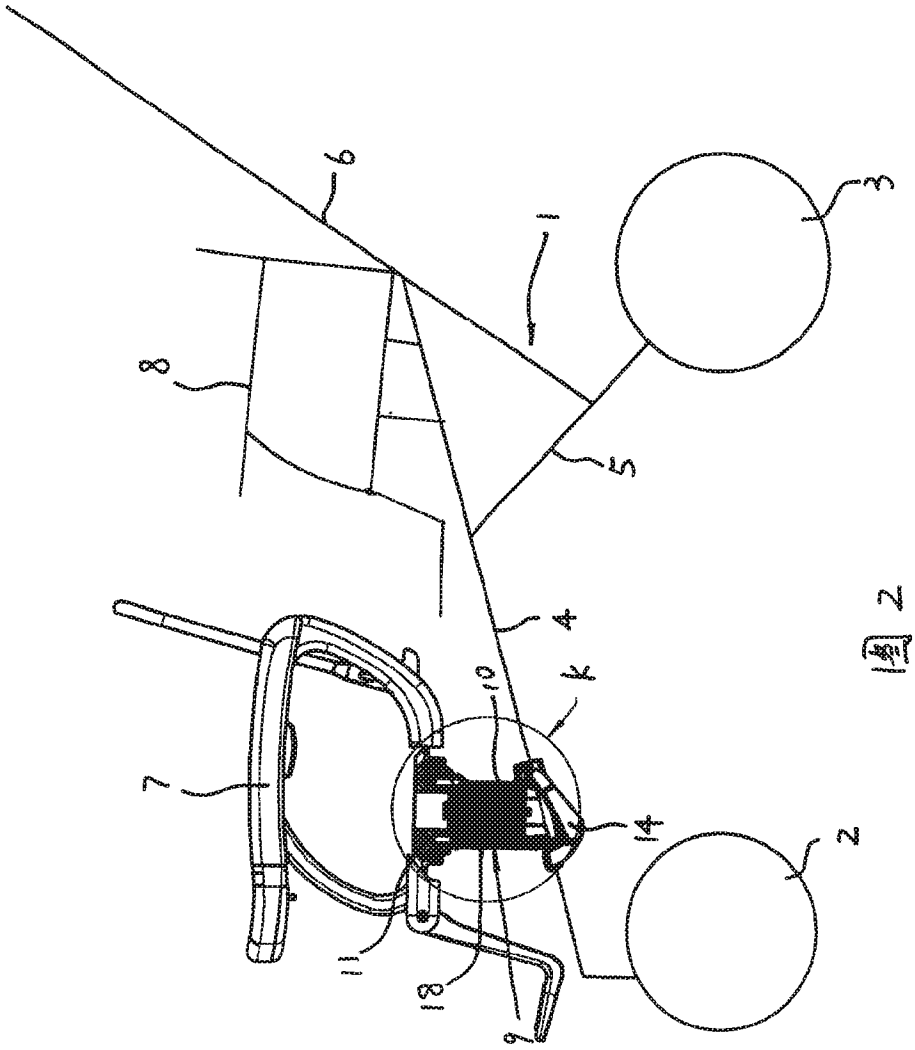


图 2

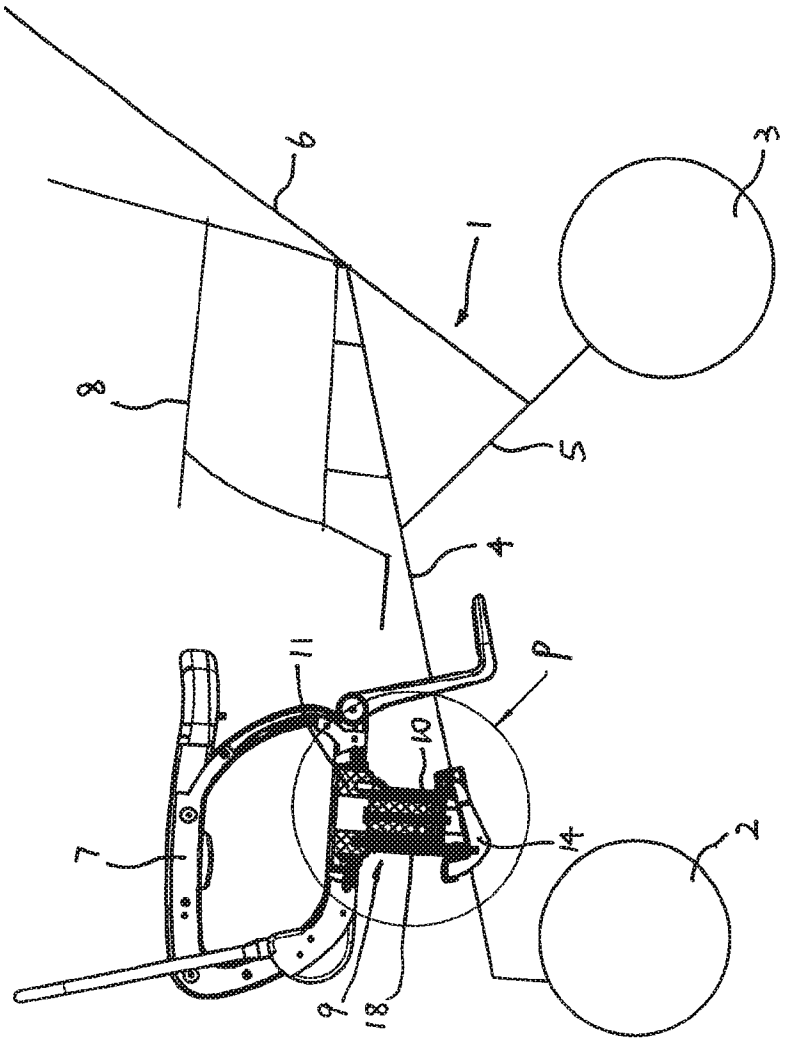


图 3

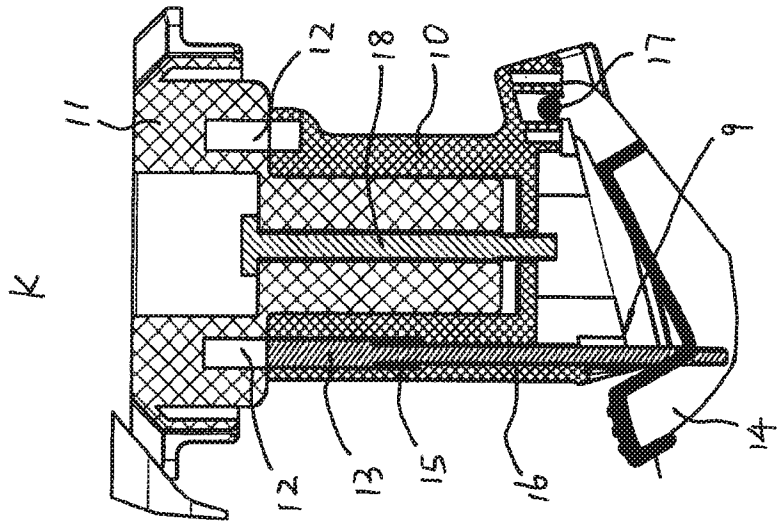


图 5

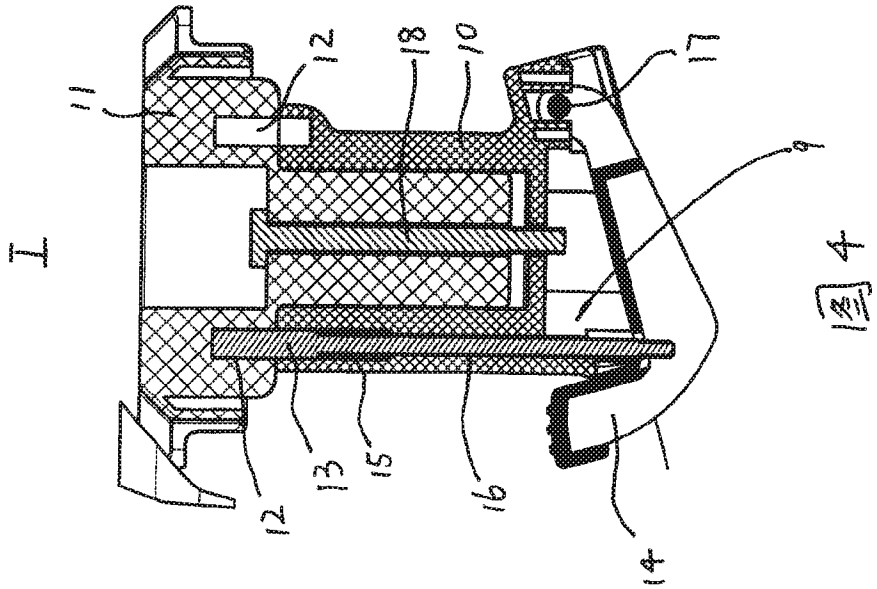


图 4

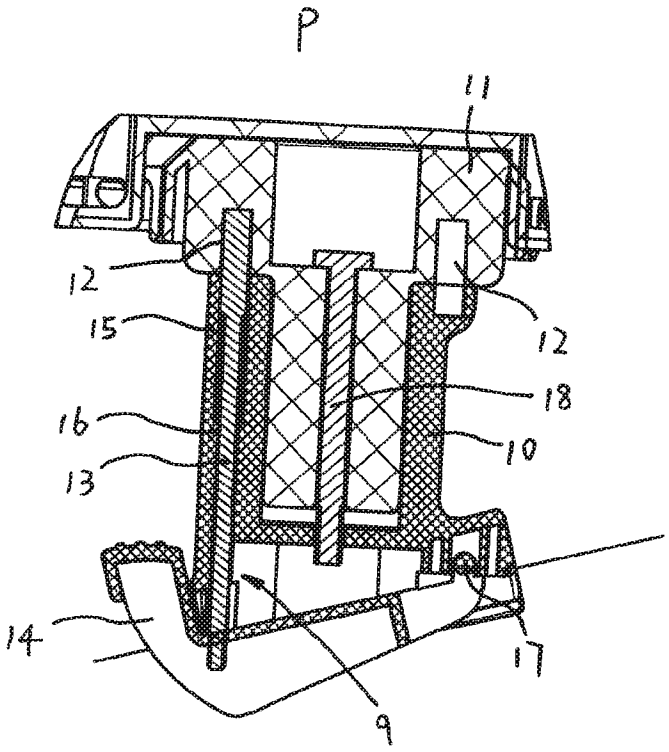


图 6

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/876,492	**07/29/2022 04:16:16 PM ET**	**34757-2680 REFILE**

Title of Invention

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4904	FILED BY	Angela Staschke
PATENT CENTER #	60825961	FILING DATE	-
CUSTOMER #	134811	FIRST NAMED INVENTOR	Jon Hee LEE
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Umar Bakhsh

Documents

TOTAL DOCUMENTS: 10

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
1_CN_3463874.pdf	8	Foreign Reference	2638 KB
2_EU_000822556-0003.pdf	5	Foreign Reference	962 KB
3_EU_001001572-0002.pdf	4	Foreign Reference	1052 KB
4_TW_129880.pdf	25	Foreign Reference	2254 KB
5_CN_2188062_Y.pdf	13	Foreign Reference	813 KB
6_CN_2759883_Y.pdf	18	Foreign Reference	1023 KB
7_CN_2784272_Y.pdf	11	Foreign Reference	949 KB

8_CN_2841450_Y.pdf	10	Foreign Reference	704 KB
9_CN_101306695_A.pdf	16	Foreign Reference	908 KB
10_CN_201214440_Y.pdf	13	Foreign Reference	985 KB

Digest

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National Stage of an International Application under 35 U.S.C. 371

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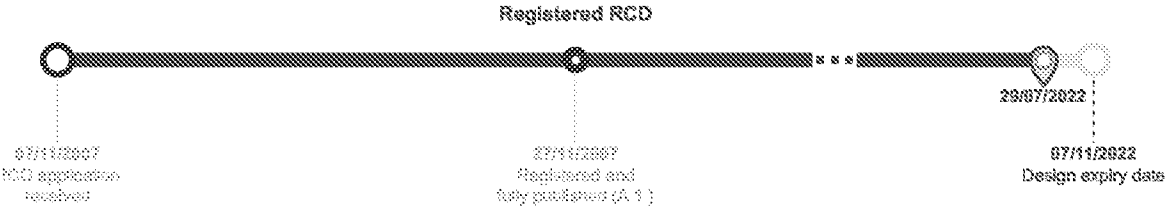
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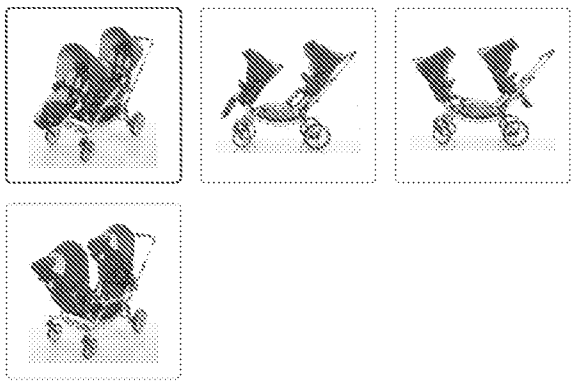
RCD file information

000822556-0003

Timeline



Graphic representation





Design information

Design number	**000822556-0003**	Filing language	**GERMAN**
Name		Second language	**ENGLISH**
Filing date	**07/11/2007**	Reference	**072776EMHi/os**
Registration date	**07/11/2007**	Vienna Classification	
Expiry date	**07/11/2022**	Verbal element	
Design status	**Registered and fully published (A.1.)**		

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Owners

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Organisation	**ABC Design GmbH**	State/county	**n/a**	ABC Design GmbH Postfach 1117 D-79772 Aibbruck ALEMANIA
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Legal status	**n/a**	Town	**Köln**	
Type	**Association**	Post code	**50667**	
		Address	**Deichmannhaus am Dom, Bahnhofsvorplatz 1**	

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Designers

No data

Exhibition priority

No data

Priority

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Publications

Bulletin number	Date	Section	Description
2007/176	27/11/2007	A.1	Applications published under Articles 48 and 50 CDR
2012/194	09/10/2012	C.1	Renewals
2014/063	03/04/2014	B.9.1	Change of name(s) and professional address(es) of the representative(s)
2016/074	21/04/2016	B.9.1	Change of name(s) and professional address(es) of the representative(s)
2016/078	27/04/2016	B.9.1	Change of name(s) and professional address(es) of the representative(s)
2017/221	21/11/2017	C.1	Renewals

Showing 1 to 6 of 6 entries

Recordals

Bulletin number	Date	Section	Filing number	Title
2012/194	09/10/2012	C.1	005723253	Registration renewal
2014/063	03/04/2014	B.9.1	007934387	Change of representative name(s) and address(es)
2016/074	21/04/2016	B.9.1	010522645	Change of representative name(s) and address(es)
2016/078	27/04/2016	B.9.1	010542810	Change of representative name(s) and address(es)
2017/221	21/11/2017	C.1	011864426	Registration renewal

Showing 1 to 5 of 5 entries

Appeals

No data

Decisions

No data

Renewals

Title	Filing number	Status	Status date
Registration renewal	005723253	Record published	10/10/2012
Registration renewal	011864426	Record published	21/11/2017

Showing 1 to 2 of 2 entries

Documents

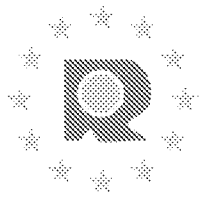
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New model patent illustration

※Application number: 097305051 ※LOC classification:

one, New style item name:

baby carriage skeleton

two, Creation Description:

【Item usage】

[0001] It can be used by infants and young children, and can be driven by human push and pull.

【Creative Features】

[0002] The frame of the stroller in this creation is composed of a main frame and a sub-frame, the main frame is slightly human-shaped on the rear side, and there is a circular joint between the middle of the main frame and the rear wheel stand for unfolding or collapsing; The subframe is on the front side, slightly L-shaped, and has an auxiliary wheel at the front end, so that the creation has five wheels side by side.

[0003] In addition, in this creation, a basket can be installed at the lower end of the rear side of the main frame, and a set of combining mechanisms can be provided on both sides of the main frame and the sub-frame, so that safety seats, baskets, cockpits, skateboards and other equipment can be added. , and can be carried by infants and young children of 2 to 4 people, as shown in the eighth to thirteenth pictures.

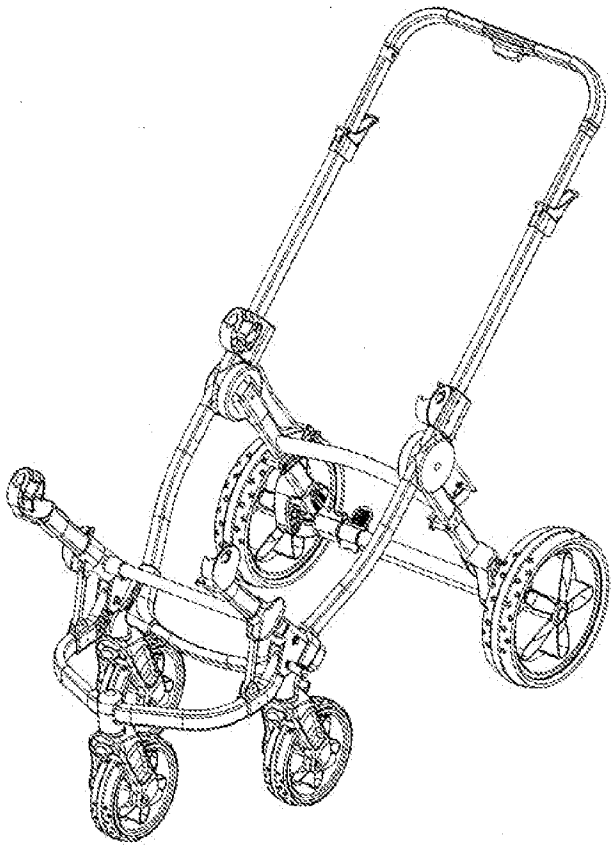
[0004] Looking at the overall shape of this creation, it is not only novel and unique, but also balanced, stable and generous. It is full of unique and unique images, as well as a stable and durable visual perception. , to file a patent application for a new model in accordance with the law.

three, Description of drawings:

Four, Drawing:

(The designated representative map, please place it on the first page of the drawing page separately)

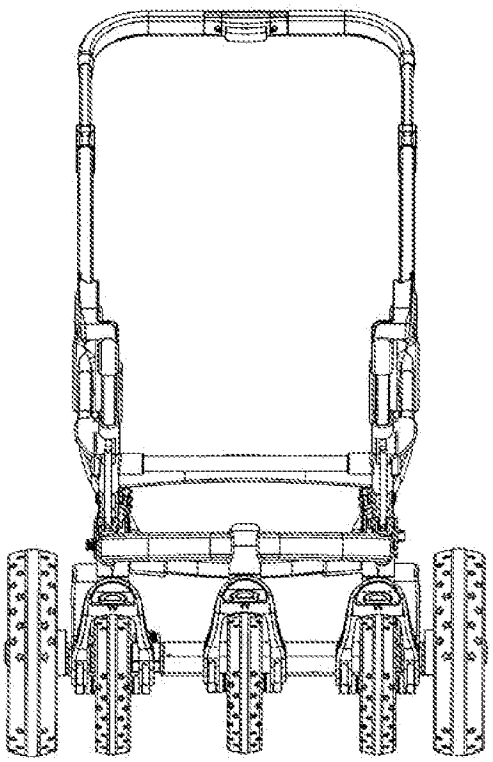
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Stereographic view (representative view)

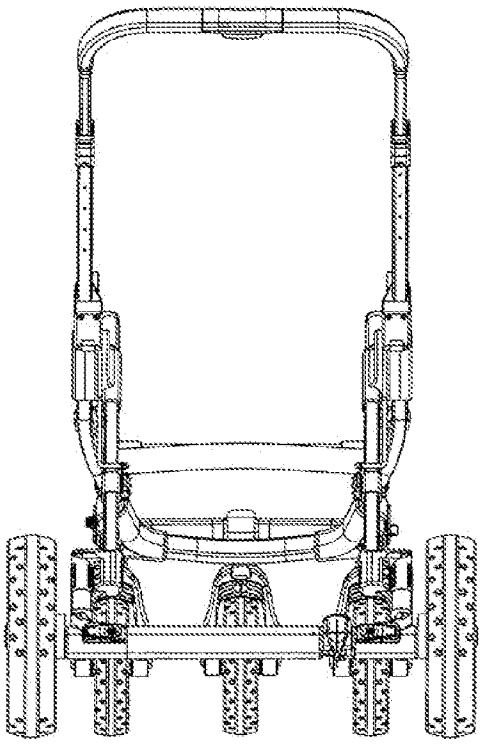
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Front view

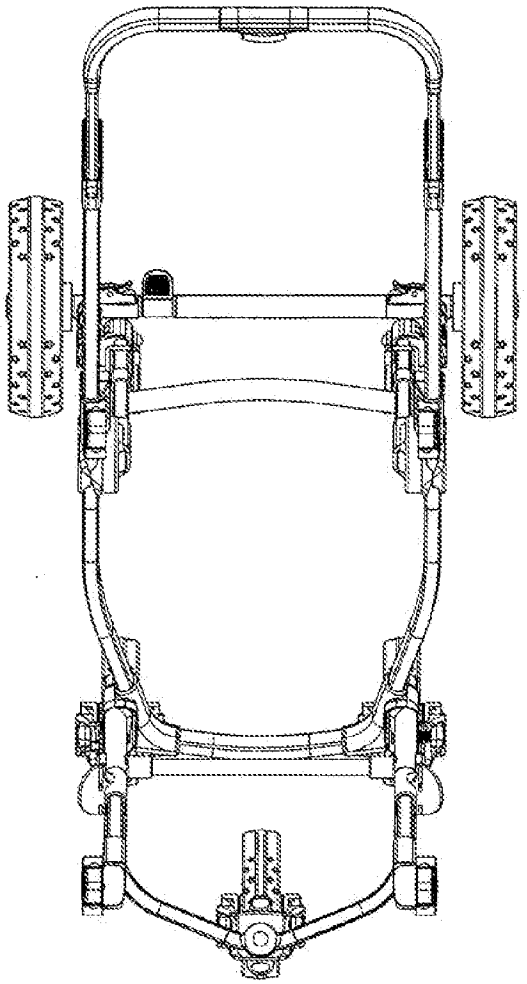
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後視圖

Rear view

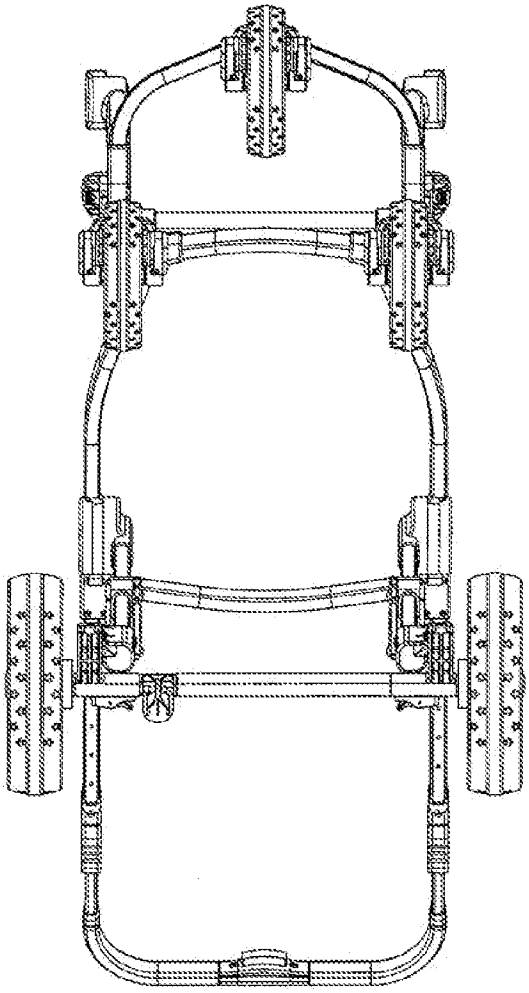
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俯視圖

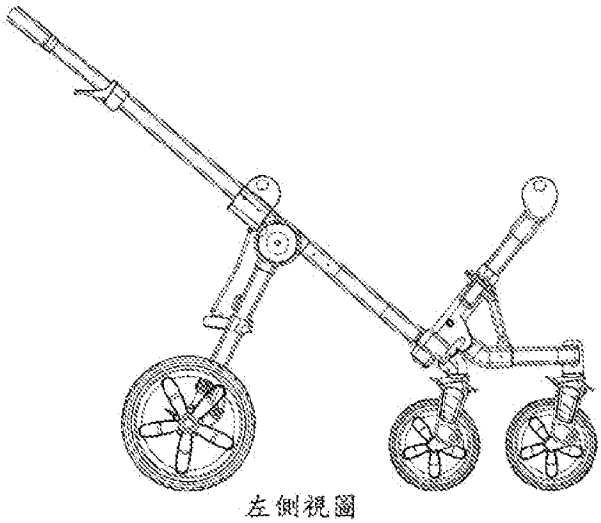
Top view

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仰視圖

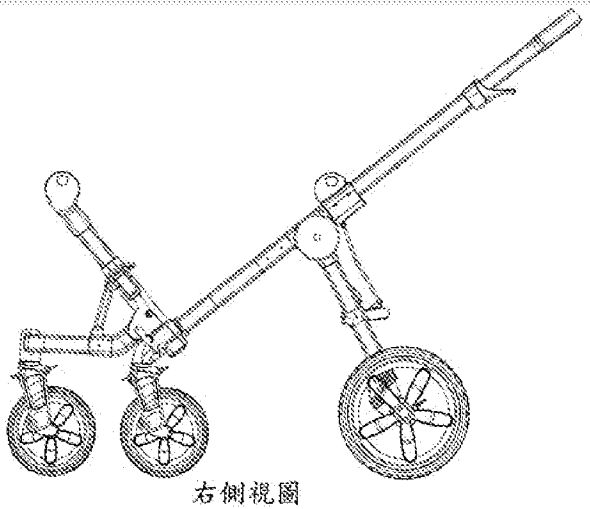
Bottom view



左側視圖

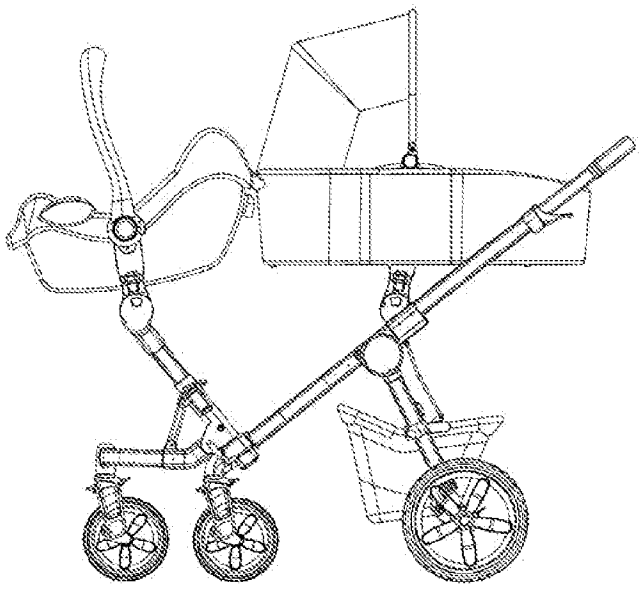
Left side view

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右側視圖

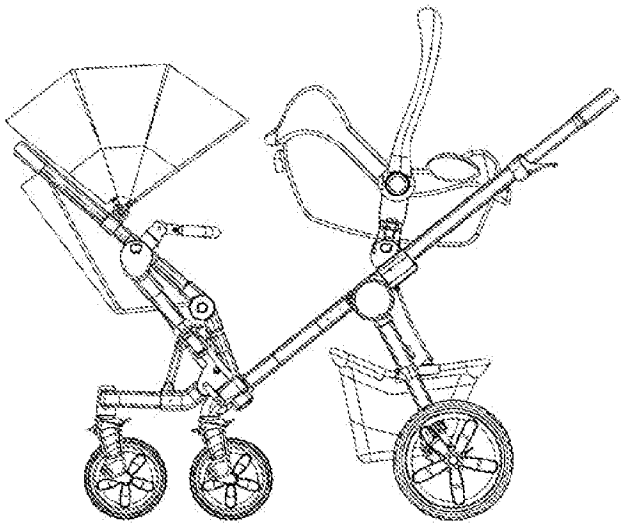
Right side view The use status of this creation



本創作加裝置物籃+安全座椅+手提睡籃
之使用狀態參考圖

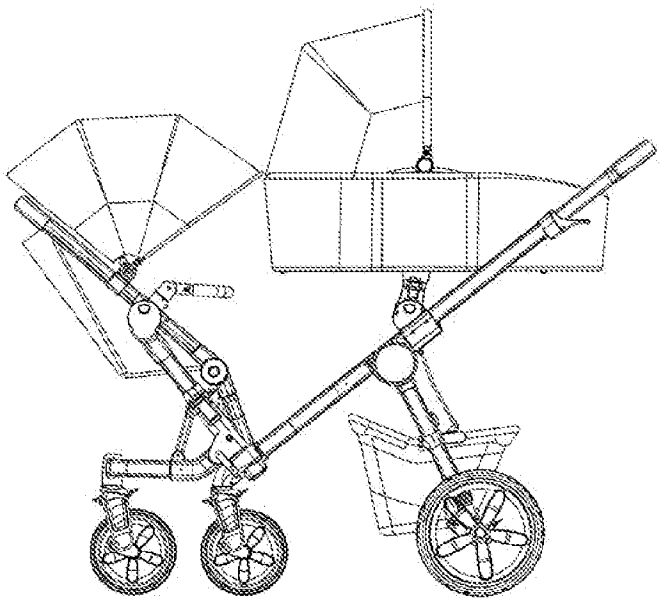
plus the object basket + safety seat + carry-on sleeping basket Reference map

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本創作加裝置物籃+安全座椅+座艙
之使用狀態參考圖

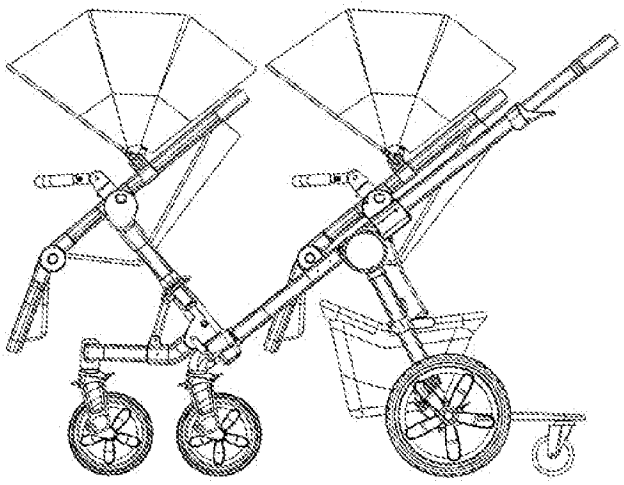
of this creation plus the object basket + safety seat + The use status of the cockpit Reference picture



本創作加裝置物籃+手提睡籃+座艙
之使用狀態參考圖

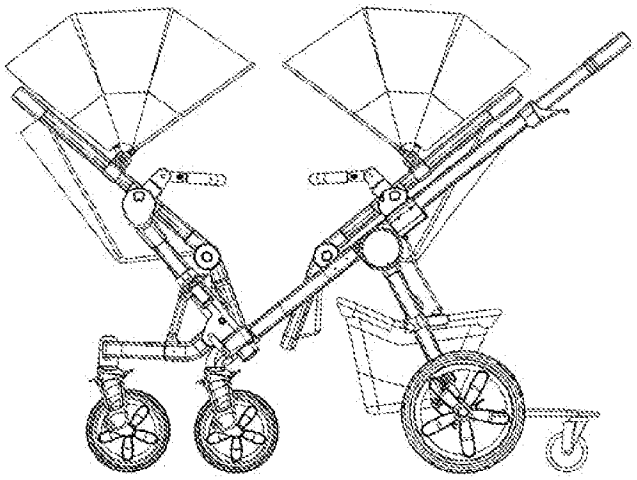
This creation plus installation basket + portable sleeping basket + cockpit use state reference picture This creation plus installation object basket

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本創作加裝置物籃+兩座艙+滑板
之使用狀態參考圖(一)

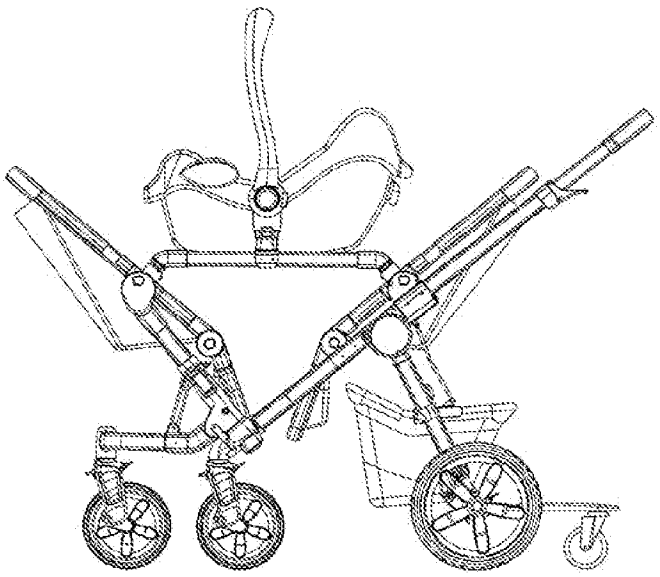
+ two cockpits + Skateboard use state reference picture



本創作加裝置物籃+兩座艙+滑板
之使用狀態參考圖(二)

Reference diagram of use status (2) Reference diagram of the status of use

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本創作加裝置物籃+兩座艙+滑板
+安全座椅之使用狀態參考圖

of this creation plus the object basket + two cockpits + skateboard + safety seat

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purposes.

D129880

公告本

新式樣專利圖說

（本圖說格式、順序及粗體字，請勿任意更動，※記號部分請勿填寫）

※申請案號：97305051

※申請日期：97.9.02　　※LOC分類：12-12 B0013-07

一、新式樣物品名稱（中文/英文）：嬰兒車骨架

二、申請人：（共1人）

姓名或名稱（中文/英文）：穩正企業股份有限公司

UNIQUE PRODUCT & DESIGN CO., LTD.

代表人（中文/英文）：廖　聰　鏞

住居所或營業所地址（中文/英文）：

台南縣永康市民東路5號

國　籍（中文/英文）：　中華民國/TW

三、創作人：（共1人）

姓　名（中文/英文）：　廖　聰　鏞

國　籍（中文/英文）：中華民國/TW

四、聲明事項：無

EVENFLO ET AL. EX1021

98年3月6日修正/更正/補充

五、創作說明：

【物品用途】

可供嬰幼兒乘坐，並以人力推拉行駛。

【創作特點】

本創作嬰兒車骨架係由主車架與副車架構成，主車架在後側略呈人形，主車架中間與後輪腳架之間具有一圓形關節，以供展開或收合；副車架則在前側，略呈L形，前端並具有一輔助輪，使本創作形成有五輪併立狀態。

另外，本創作可在主車架後側下端裝設置物籃，另外可在主、副車架上兩側各具有一組結合機構，俾可加裝安全座椅、提籃、座艙、滑板等配備，而可供2～4人的嬰幼兒搭載，如第八～十三圖所示。

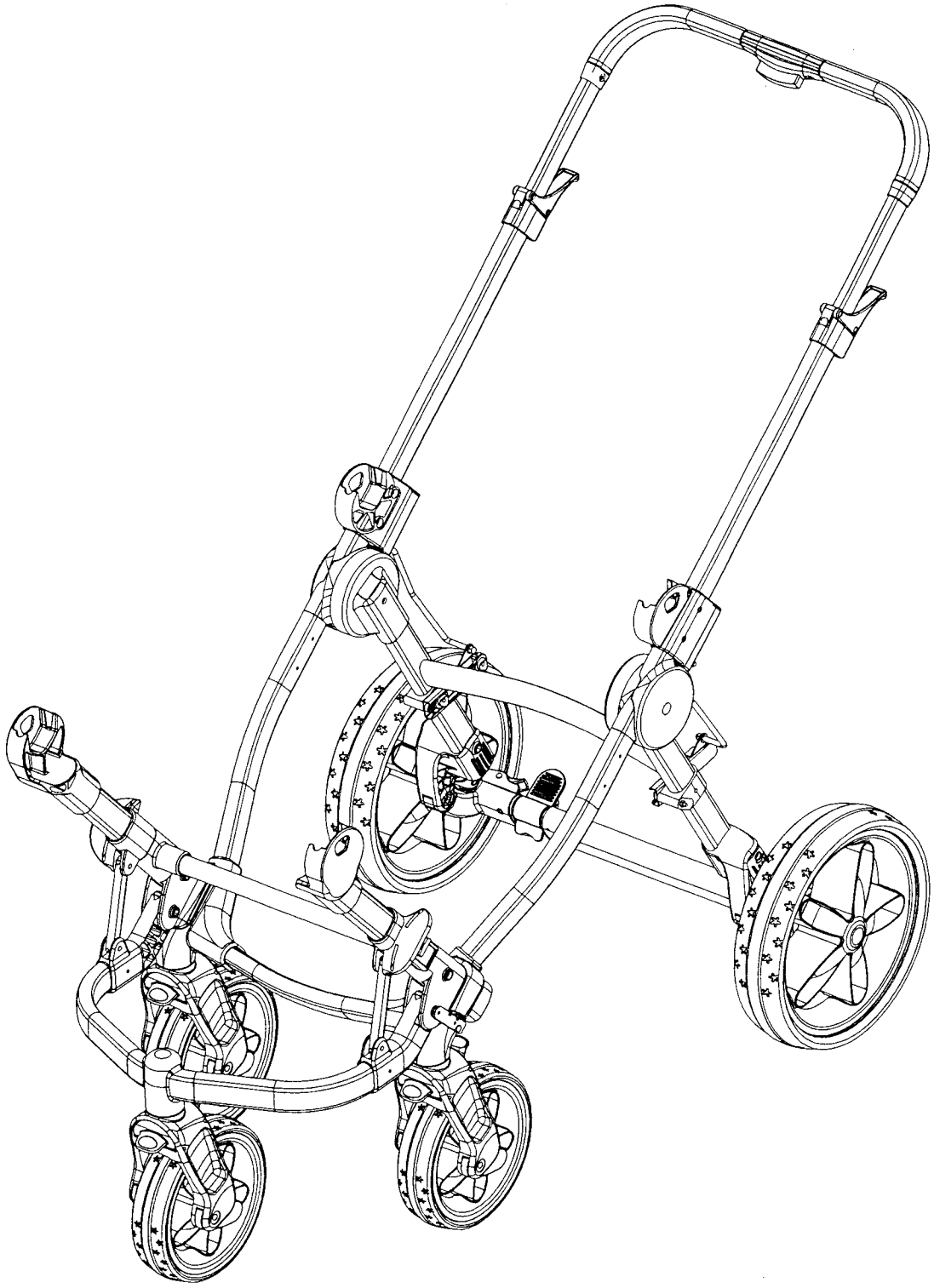
綜觀本創作整體造型，不但新穎獨特，且前後均衡又穩重大方，實充滿了穎異獨特之形象，及平穩耐用之視覺感觀，誠為一極具創意性又兼具美感與實用之產品設計，爰依法提出新式樣專利申請。

六、圖面說明：

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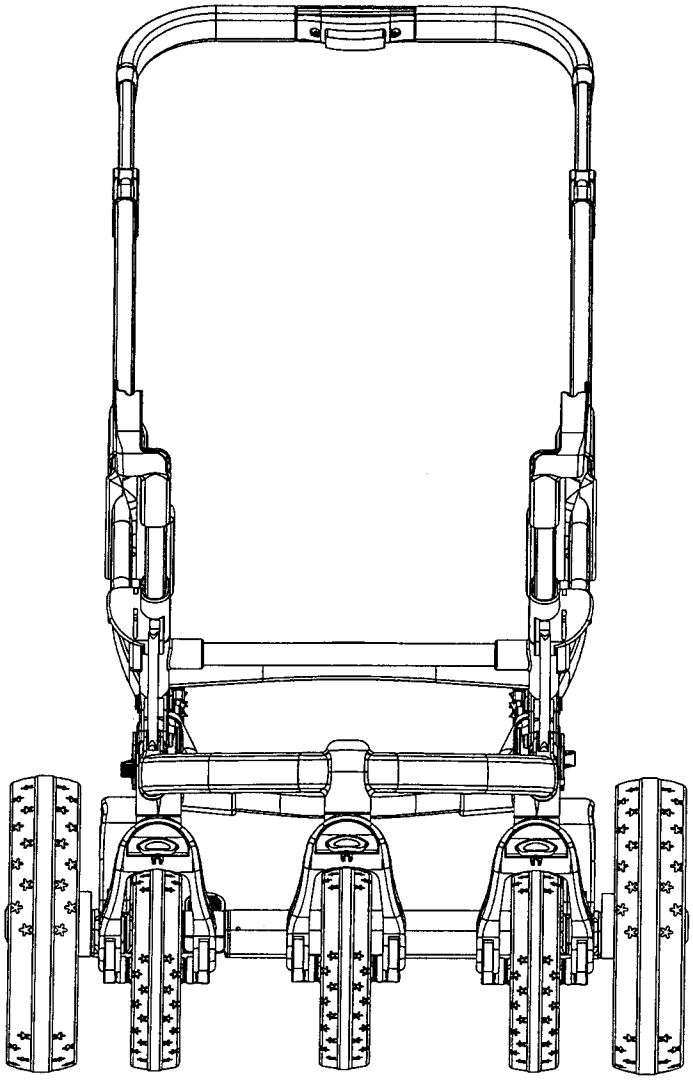
D129880

七、圖面：



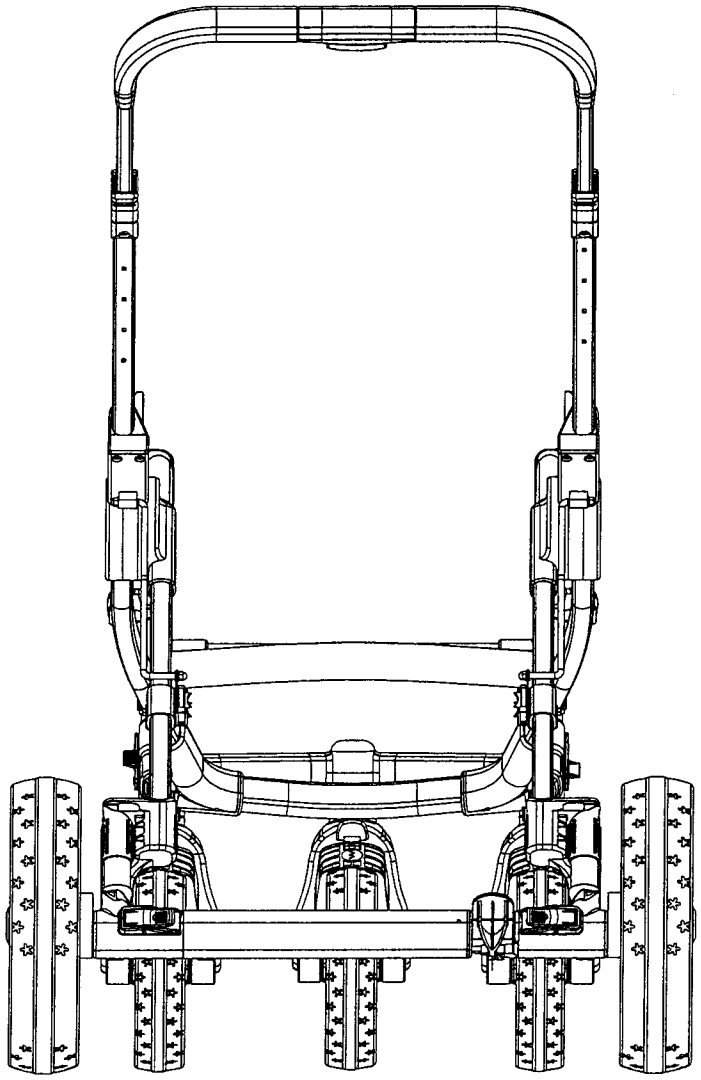
立體圖(代表圖)

EVENFLO ET AL. EX1021



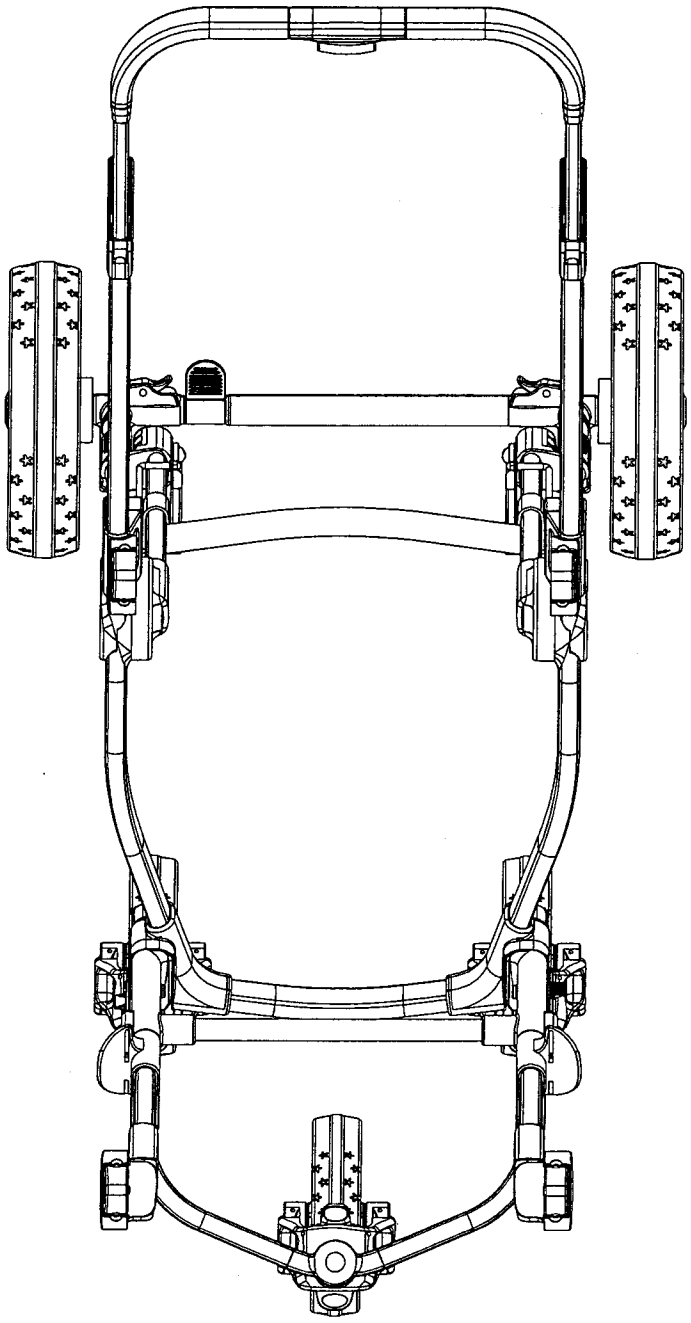
前視圖

EVENFLO ET AL. EX1021



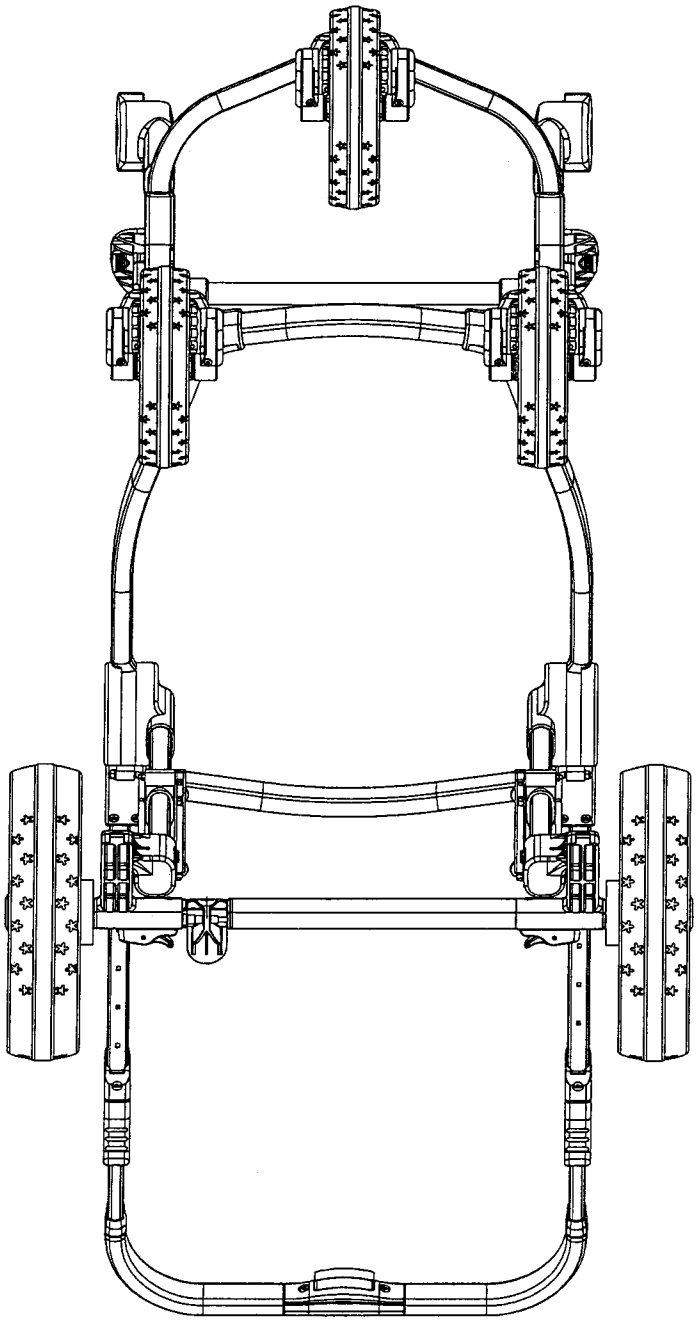
後視圖

EVENFLO ET AL. EX1021



俯視圖

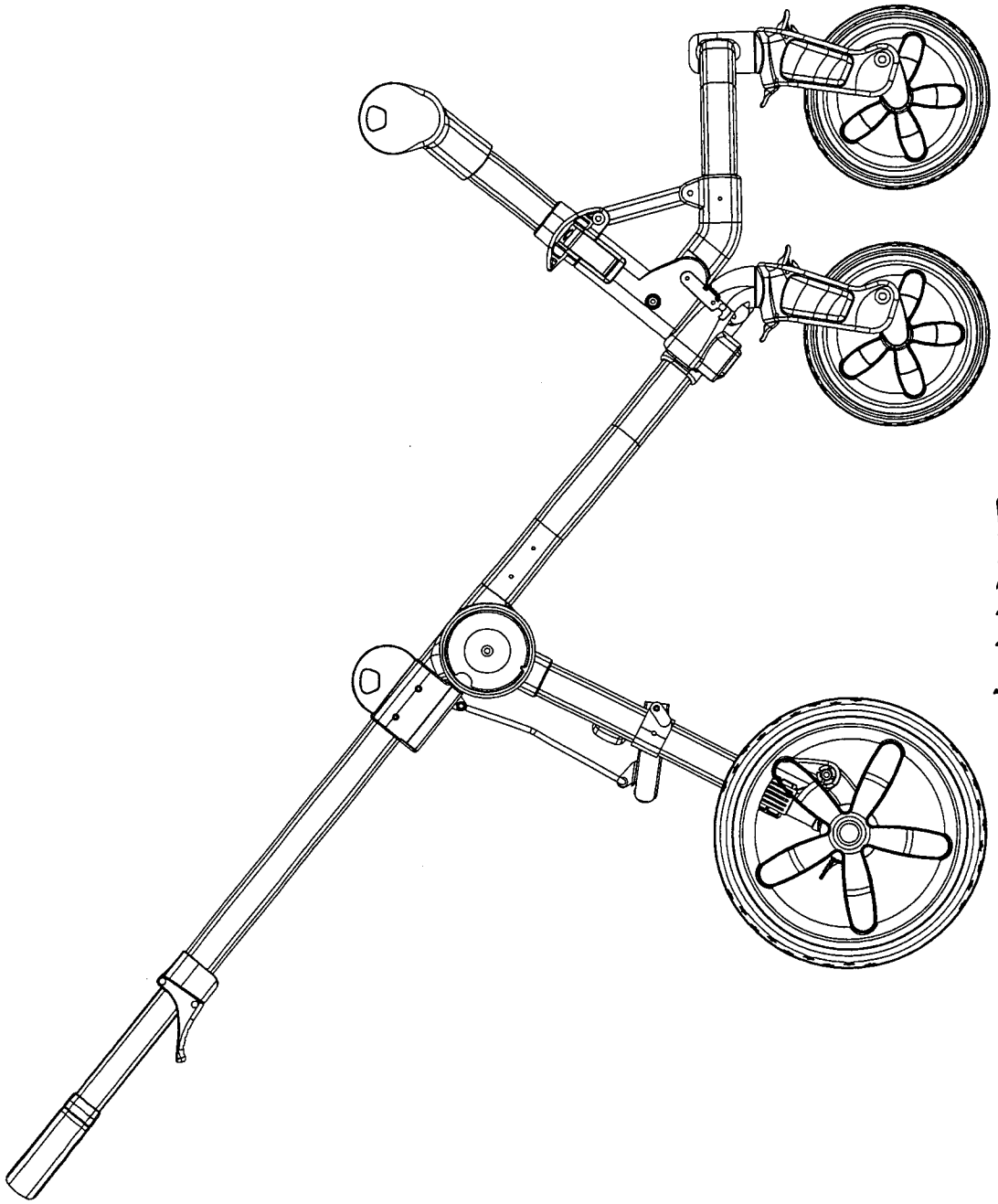
EVENFLO ET AL. EX1021



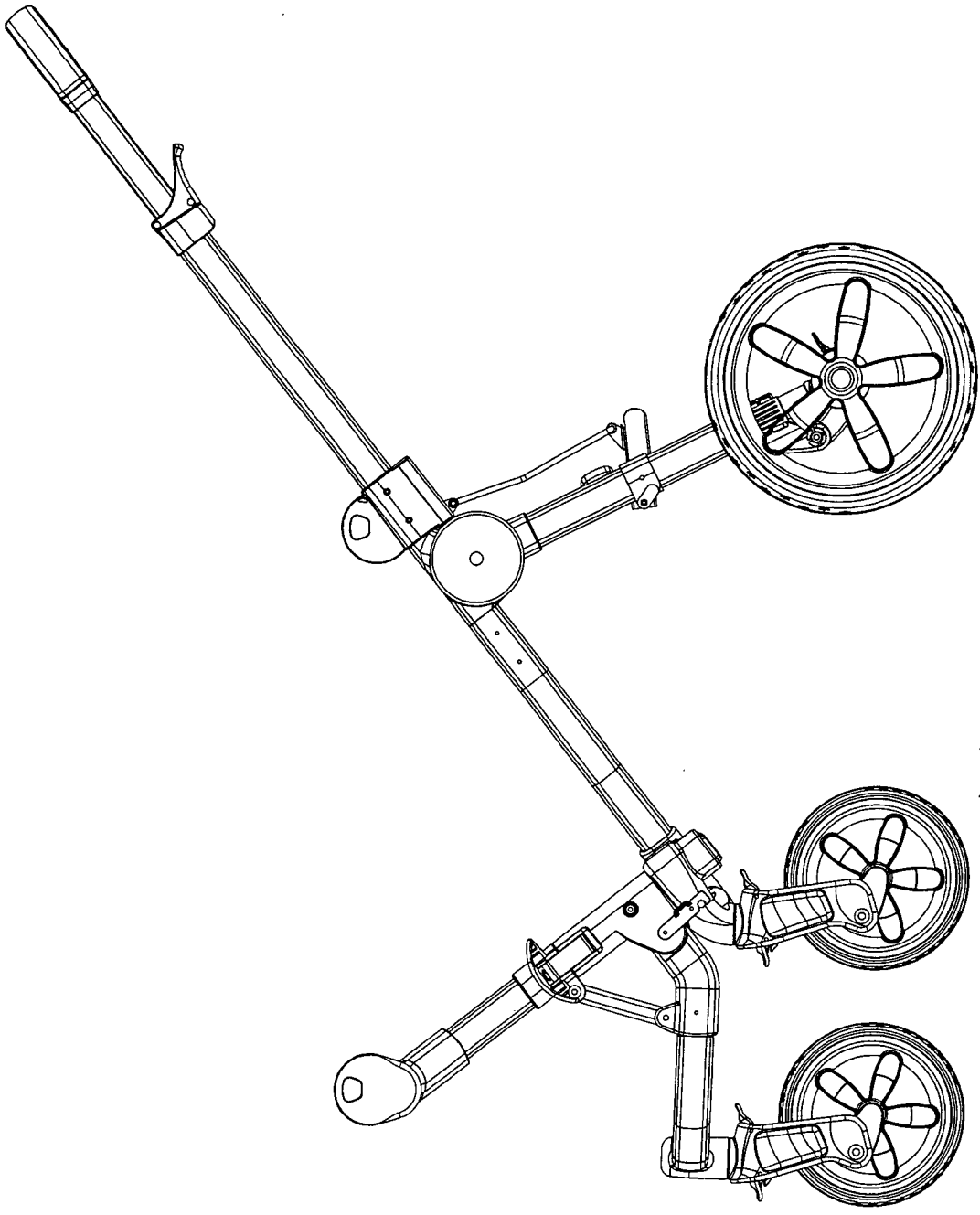
仰視圖

EVENFLO ET AL. EX1021

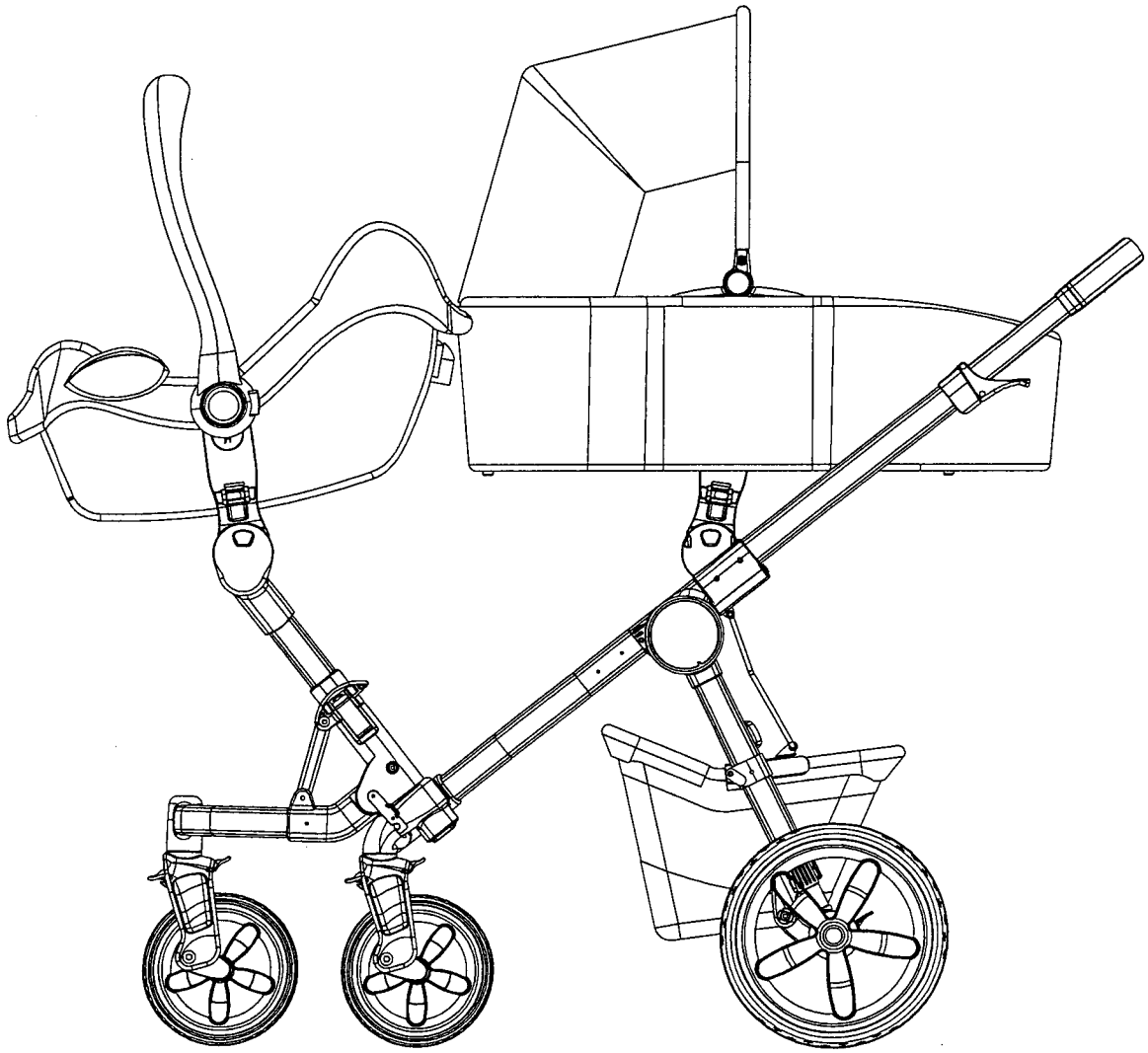
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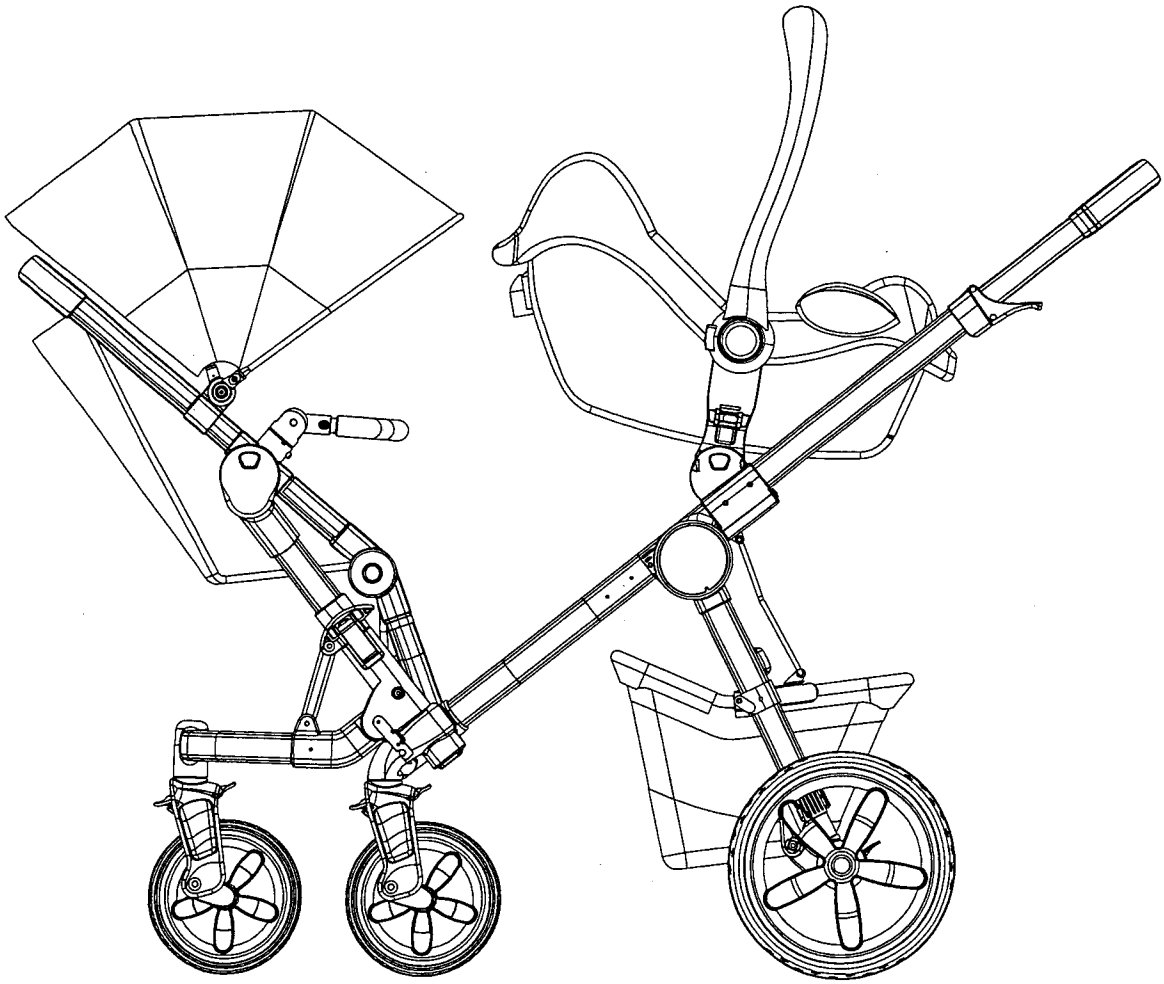
左側視圖



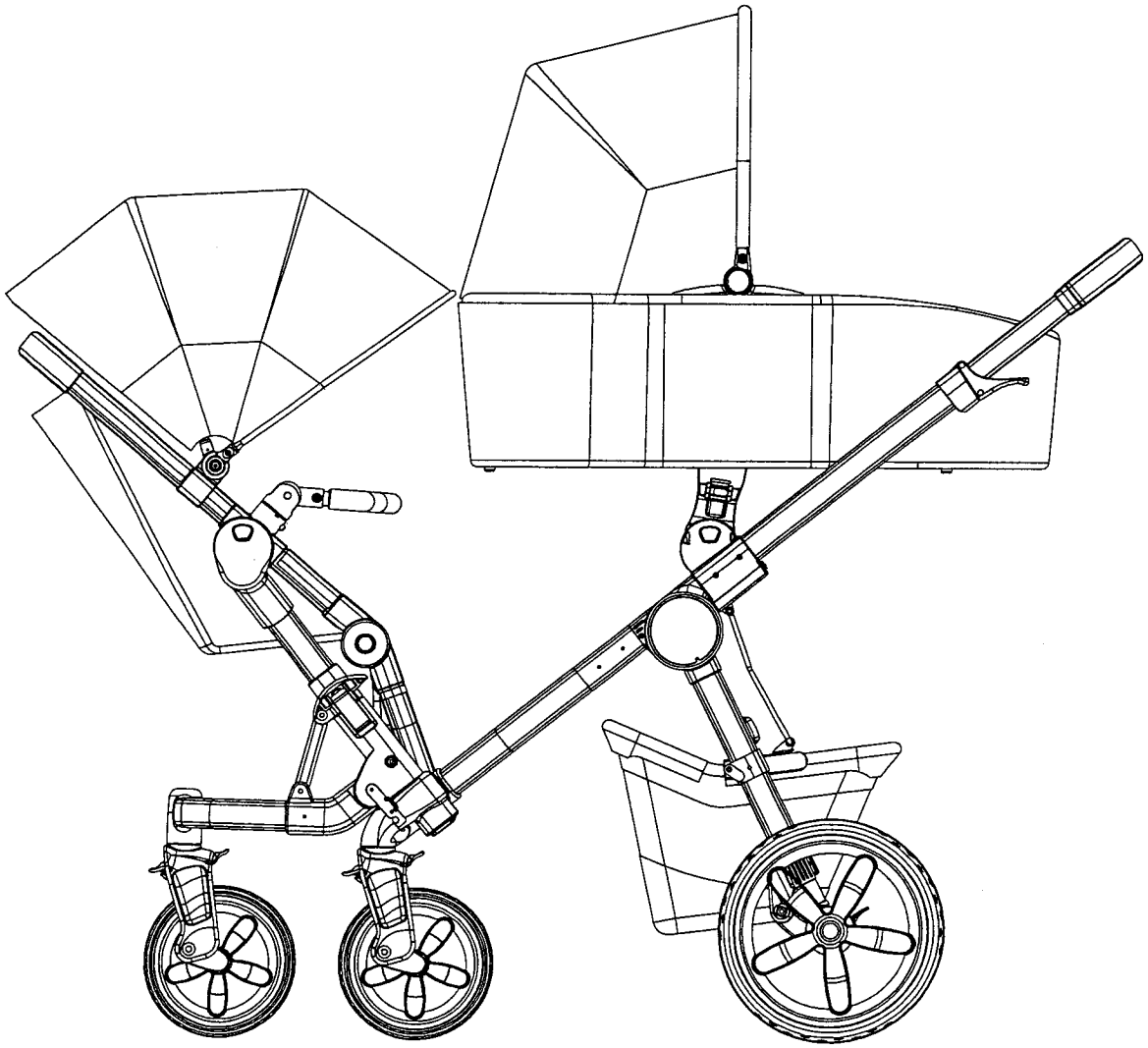
右側視圖



本創作加裝置物籃+安全座椅+手提睡籃
之使用狀態參考圖

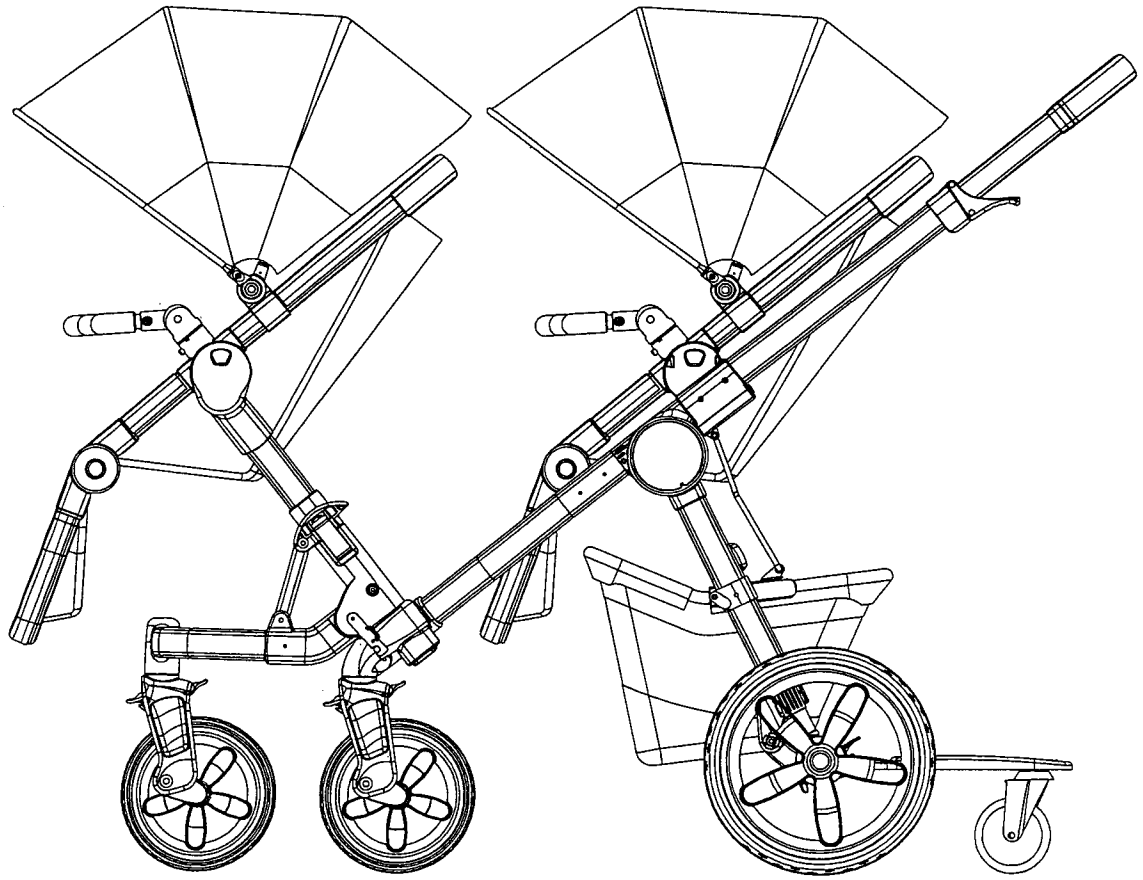


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之使用狀態參考圖

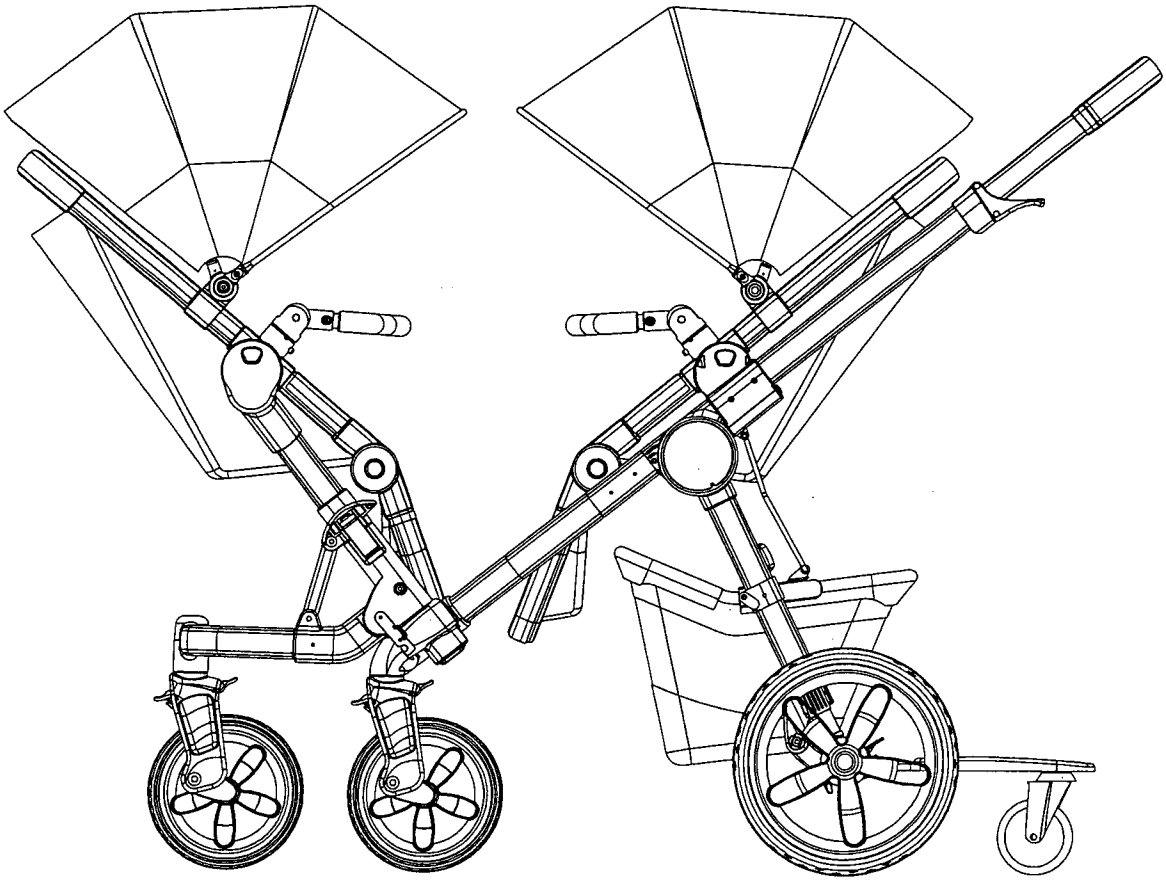


本創作加裝置物籃+手提睡籃+座艙
之使用狀態參考圖

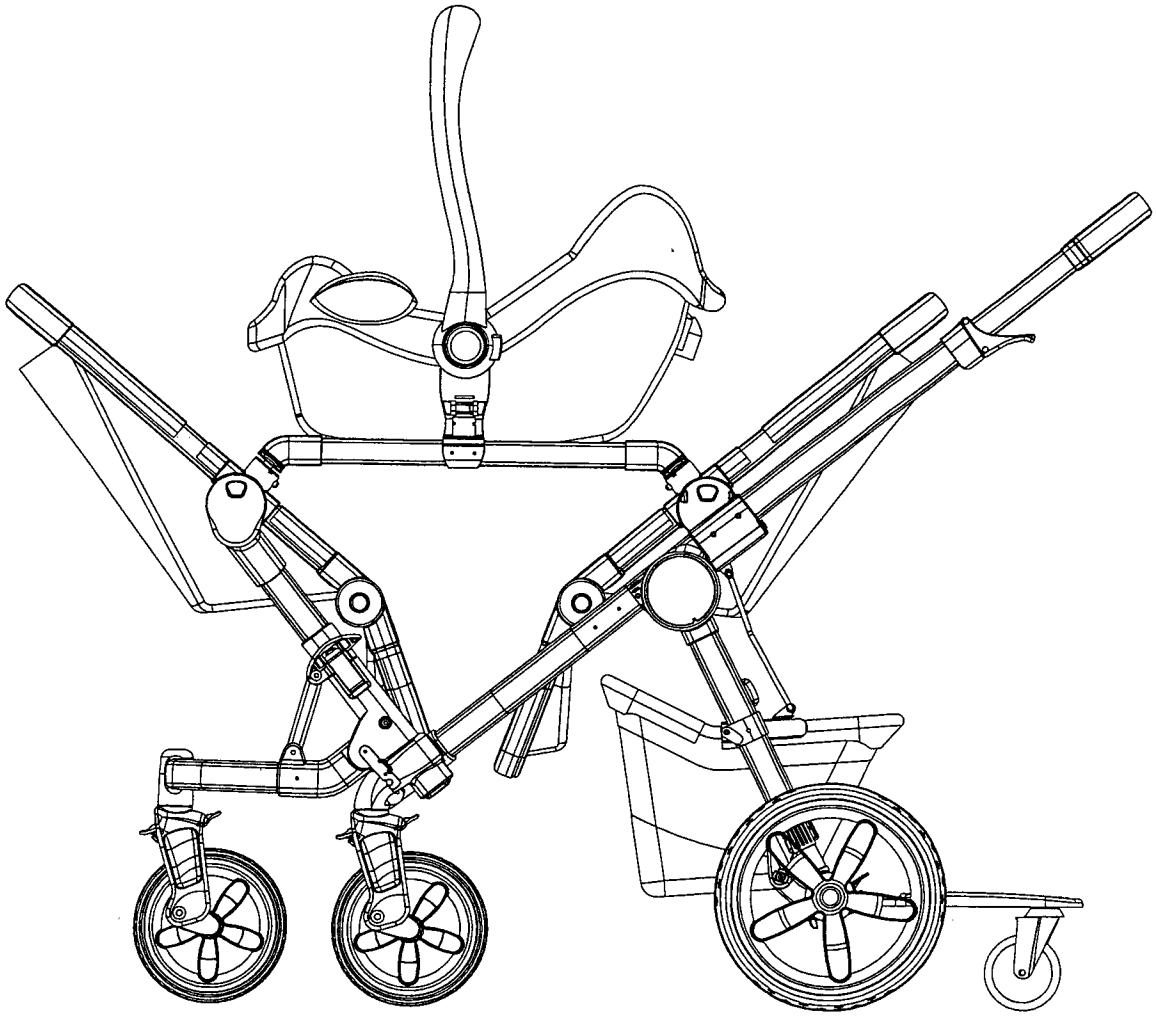
EVENFLO ET AL. EX1021



本創作加裝置物籃+兩座艙+滑板
之使用狀態參考圖(一)



本創作加裝置物籃+兩座艙+滑板
之使用狀態參考圖(二)



本創作加裝置物籃+兩座艙+滑板
+安全座椅之使用狀態參考圖

1. **[此文献暂无发明名称]** This document has no name of invention

申请号 Application Number
CN200430101456

申请日 Application Date
2004.10.25

公开（公告）日 Public (announcement) day
2005.07.27

申请（专利权）人 Applicant (Patent Right) Holder
好孩子儿童用品有限公司 Goodbaby Children's Products Co., Ltd.

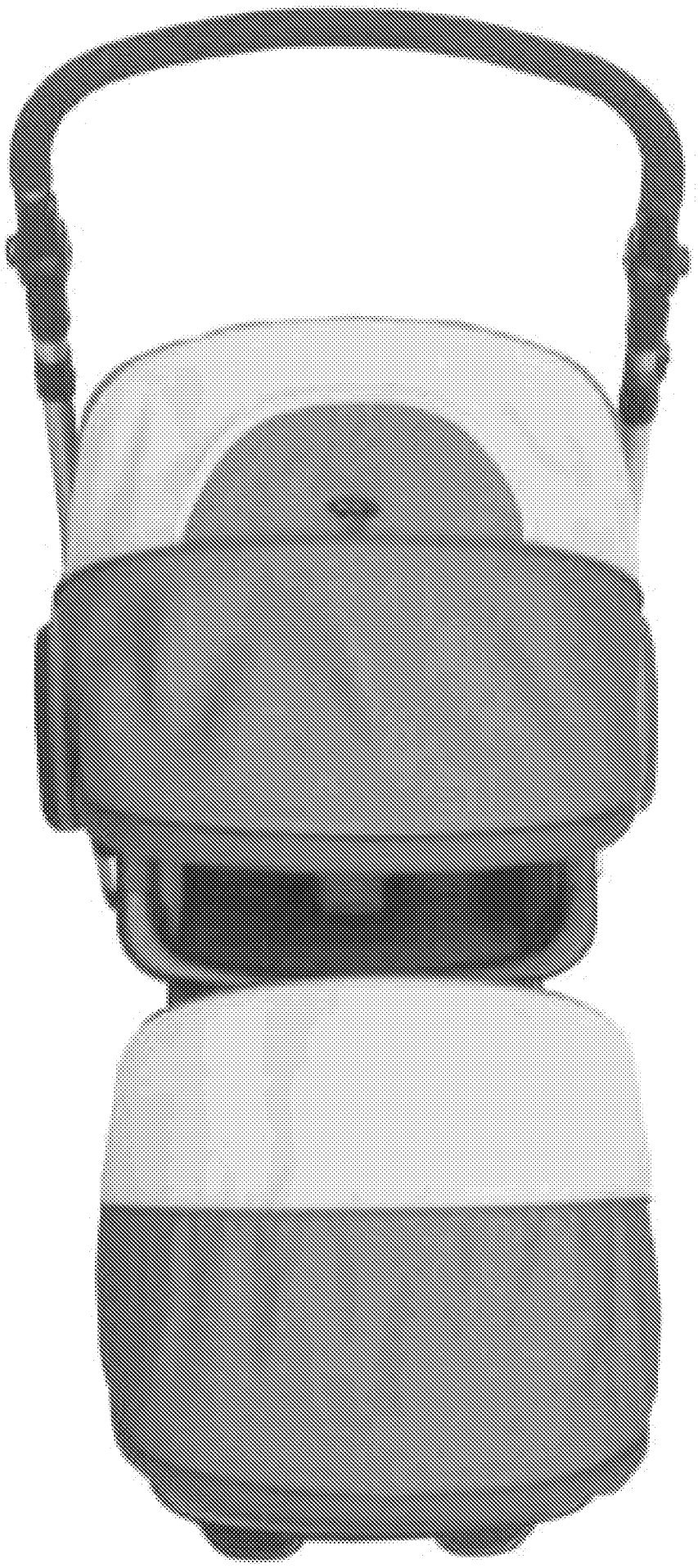
发明人 Inventor
宋郑还 Song Zhenghuan

摘要 Summary

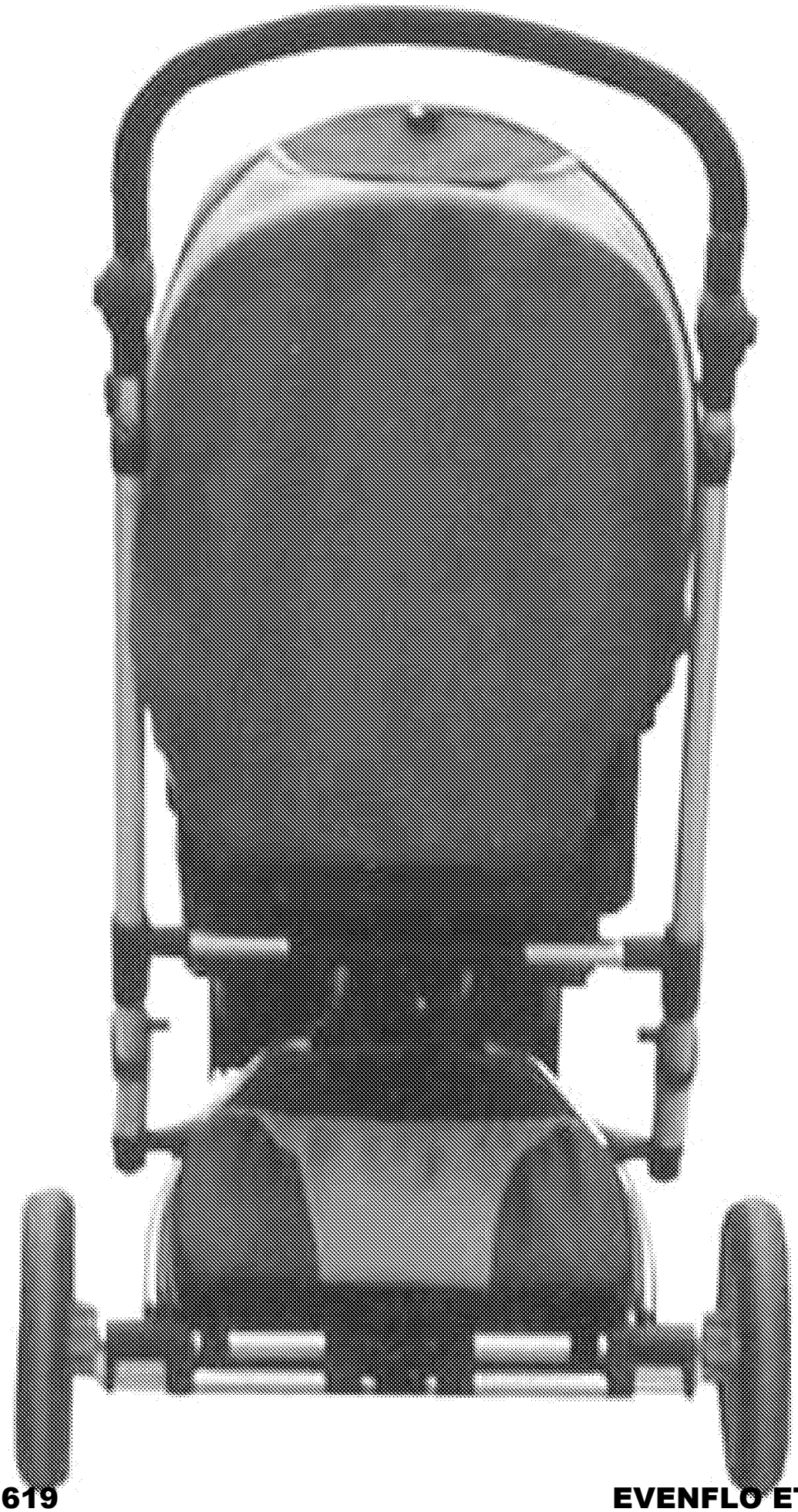
- ABSTRACT ： 仰视图为不常见视图，省略仰视图。

The bottom view is an uncommon view, and the bottom view is omitted.

俯视图P3



后视图P1



立体图P4



使用状态图P4



右视图P2



主视图P1



左视图P2



Espacenet

CN101306695A Self-standing mechanism for folding perambulator and folding perambulator with the self-standing mechanism

Applicants: GOODBABY CHILD PRODUCTS CO LTD [CN]

Inventors: ZEJUN LI [CN]

Classifications:
IPC ***B62B7/06;***

Priorities: CN200810122491A 2008-05-30

Application: CN200810122491A·2008-05-30

Publication: CN101306695A·2008-11-19

Published as: CN101306695A;**CN101306695B**

Self-standing mechanism for folding perambulator and folding perambulator with the self-standing mechanism

Abstract

A self-support mechanism of a foldable buggy comprises a front-wheel frame, a bent connecting part which connects the upper end part and the lower end part of the front-wheel frame, and a front-wheel component which is arranged at the lower end part of the bent connecting part; the front-wheel component is positioned below the front-wheel frame, a rod part is arranged on the front-wheel frame along the length direction in a sliding manner, the length direction of the rod part is consistent with the length direction of the front-wheel frame; when the buggy is in the folding state, the front-wheel component and the lower end part of the rod part are grounded to form the support of the foldable buggy. As the rod part can be slid relative to the front-wheel frame, when the rod part is slid till the rod part and a front wheel are simultaneously grounded, the support of the folded buggy is formed, the self-support mechanism has simpler structure, the structure of the buggy which comprises the self-support mechanism is also simple, and the size after folding is smaller and trimmer.

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[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
B62B 7/06 (2006.01)

[12] 发明专利申请公布说明书

[21] 申请号 200810122491.1

[43] 公开日 2008 年 11 月 19 日

[11] 公开号 CN 101306695A

[22] 申请日 2008.5.30
[21] 申请号 200810122491.1
[71] 申请人 好孩子儿童用品有限公司
地址 215331 江苏省昆山市陆家镇录溪东路 20 号
[72] 发明人 李泽军

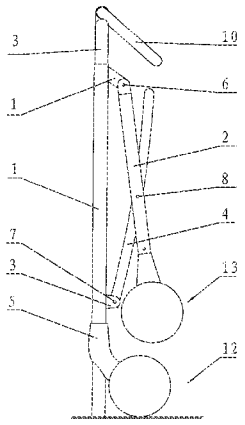
[74] 专利代理机构 苏州创元专利商标事务所有限公司
代理人 孙仿卫
权利要求书 2 页 说明书 4 页 附图 8 页

[54] 发明名称

可折叠童车的自立机构及具有该自立机构的可折叠童车

[57] 摘要

一种可折叠童车的自立机构，包括前轮支架、上端部与所述的前轮支架下端部相连接的弯形连接件、设置在所述的弯形连接件下端部的前轮组件，所述的前轮组件位于所述的前轮支架的下方，所述的前轮支架上沿其长度方向可滑动地设置有杆件，所述的杆件的长度方向与前轮支架的长度方向相一致，当童车处于折叠状态下，所述的前轮组件及所述的杆件的下端部着地形成对可折叠童车的支撑。由于杆件相对前轮支架滑动，当杆件滑至与前轮同时着地后便对折叠后的童车形成支撑，因而该自立机构结构较简单，包含有该自立机构的童车的结构也简单，并且折叠后体积较小，较整齐。



1、一种可折叠童车的自立机构，包括前轮支架（1）、上端部与所述的前轮支架（1）下端部相连接的弯形连接件（5）、设置在所述的弯形连接件（5）下端部的前轮组件（12），所述的前轮组件（12）位于所述的前轮支架（1）的下方，其特征在于：所述的前轮支架（1）上沿其长度方向可滑动地设置有杆件（3），所述的杆件（3）的长度方向与前轮支架（1）的长度方向相一致，当童车处于折叠状态下，所述的前轮组件（12）及所述的杆件（3）的下端部着地形成对可折叠童车的支撑。

2、根据权利要求1所述的可折叠童车的自立机构，其特征在于：所述的前轮支架（1）为具有管腔的管件，所述的弯形连接件（5）上具有与前轮支架（1）的管腔相通的通孔（9），所述的杆件（3）能够滑动地插在所述的前轮支架（1）的管腔内，或者所述的杆件（3）能够滑动地插在所述的前轮支架（1）的管腔与所述的通孔（9）内。

3、根据权利要求2所述的可折叠童车的自立机构，其特征在于：当童车处于打开状态下，所述的杆件（3）的下端部位于前轮支架（1）的管腔内或者位于所述的通孔内，当童车处于折叠状态下，所述的杆件（3）的下端部伸出所述的通孔（9）。

4、根据权利要求1所述的可折叠童车的自立机构，其特征在于：所述的杆件（3）为童车的推杆。

5、一种包含有权利要求1的自立机构的可折叠童车，其具有打开状态与折叠状态，包括前轮支架（1）、后轮支架（2）、与所述的后轮支架（2）相转动连接的座位杆（4）、用于将所述的童车锁定于打开状态的锁定装置、前轮组件（12）、设置在所述的后轮支架（2）下部的后轮组件（13），所述的前轮支架（1）的下端部连接有弯形连接件（5）的上端部、所述的前轮组件（12）设置于所述的弯形连接件（5）下端部，所述的前轮组件（12）位于所述的前轮支架（1）的下方，当童车处于打开状态下，所述的前轮组件（12）及所述的后轮组件（13）着地形成对可折叠童车的支撑，

其特征在于：所述的前轮支架（1）上沿其长度方向可滑动地设置有杆件（3），所述的杆件（3）的长度方向与前轮支架（1）的长度方向相一致，所述的座位杆（4）的前端部与所述的杆件（3）相转动地连接，所述的后轮支架（2）的上端部与所述的前轮支架（1）的上端部相转动地连接，当童车处于折叠状态下，所述的前轮组件（12）及所述的杆件（3）的下端部着地形成对可折叠童车的支

撑。

6、根据权利要求5所述的可折叠童车，其特征在于：所述的前轮支架（1）为具有管腔的管件，所述的弯形连接件（5）上具有与前轮支架（1）的管腔相通的通孔（9），所述的杆件（3）能够滑动地插在所述的前轮支架（1）的管腔内，或者所述的杆件（3）能够滑动地插在所述的前轮支架（1）的管腔与所述的通孔（9）内；所述的前轮支架（1）沿其长度方向开有滑动槽（11），或者所述的前轮支架（1）与所述的弯形连接件（5）上都沿着所述的前轮支架（1）的长度方向开有滑动槽（11），所述的座位杆（4）的前端部与所述的杆件（3）通过所述的滑动槽（11）相转动地连接。

7、根据权利要求6所述的可折叠童车，其特征在于：当童车处于打开状态下，所述的杆件（3）的下端部位于前轮支架（1）的管腔内或者位于所述的通孔（9）内，当童车处于折叠状态下，所述的杆件（3）的下端部伸出所述的通孔（9）。

8、根据权利要求5所述的可折叠童车，其特征在于：所述的杆件（3）为童车的推杆。

9、根据权利要求5所述的可折叠童车，其特征在于：所述的杆件（3）上可转动地连接有调节把（10），该调节把（10）与所述的杆件（3）之间设置有锁定机构。

可折叠童车的自立机构及具有该自立机构的可折叠童车

技术领域

本发明涉及一种童车，尤其是童车的自立机构及包含有该自立机构的可折叠童车。

背景技术

童车的自立机构通常是在童车折叠后起作用，童车的自立机构使得童车处于折叠状态下依然能立起，便于搬运者拿取。现有技术中可折叠童车的自立机构有多种，有些是杆件的下端部与后轮着地形成对童车的支撑；有些是前轮与后轮同时着地形成对童车的支撑；有些是在车架上另加一条支撑腿，该支撑腿与前轮或后轮着地形成对童车的支撑。目前这些自立机构存在以下缺陷：要么是自立机构本身结构较复杂，要么是将自立机构应用到可折叠的童车上后，使得童车的结构较复杂；并且包含有自立机构的可折叠童车还存在折叠后体积小与折叠后整齐不能两全的缺陷。

发明内容

本发明要解决的技术问题是提供一种结构较简单的可折叠童车的自立机构，本发明还要提供一种包含所述自立机构的结构较简单的可折叠童车。

为达到上述目的，本发明采用的技术方案是：

一种可折叠童车的自立机构，包括前轮支架、上端部与所述的前轮支架下端部相连接的弯形连接件、设置在所述的弯形连接件下端部的前轮组件，所述的前轮组件位于所述的前轮支架的下方，所述的前轮支架上沿其长度方向可滑动地设置有杆件，所述的杆件的长度方向与前轮支架的长度方向相一致，当童车从打开状态向折叠状态转换的过程中，所述的杆件相对前轮支架向下滑动直至童车处于折叠状态，所述的前轮组件及所述的杆件的下端部都着地形成对可折叠童车的支撑，该自立机构可以应用到多款不同折叠原理的车架上。

所述的前轮支架为具有管腔的管件，所述的弯形连接件上具有与前轮支架的管腔相通的通孔，所述的杆件能够滑动地插在所述的前轮支架的管腔内，或者所述的杆件能够滑动地插在所述的前轮支架的管腔与所述的通孔内，为优选，视觉效果较好，杆件显得较少，较整齐。所述的杆件与所述的前轮支架相并列地设置也可以实现。

当童车处于打开状态下，所述的杆件的下端部位于前轮支架的管腔内或者

位于所述的通孔内，当童车处于折叠状态下，所述的杆件的下端部伸出所述的通孔。

所述的杆件为童车的推杆。

一种包含有以上自立机构的可折叠童车，其具有打开状态与折叠状态，包括前轮支架、后轮支架、与所述的后轮支架相转动连接的座位杆、用于将所述的童车锁定于打开状态的锁定装置、前轮组件、设置在所述的后轮支架下部的后轮组件，所述的前轮支架的下端部连接有弯形连接件的上端部、所述的前轮组件设置于所述的弯形连接件下端部，所述的前轮组件位于所述的前轮支架的下方，当童车处于打开状态下，所述的前轮组件及所述的后轮组件着地形成对可折叠童车的支撑，

所述的前轮支架上沿其长度方向可滑动地设置有杆件，所述的杆件的长度方向与前轮支架的长度方向相一致，所述的座位杆的前端部与所述的杆件相转动地连接，所述的后轮支架的上端部与所述的前轮支架的上端部相转动地连接，当童车从打开状态向折叠状态转换的过程中，所述的杆件相对所述的前轮支架向下滑动，所述的座位杆的前端部随着所述的杆件一起向下滑动，从而将前轮组件与后轮组件拉拢，当童车处于折叠状态下，所述的前轮组件及所述的杆件的下端部着地形成对可折叠童车的支撑。

所述的前轮支架为具有管腔的管件，所述的弯形连接件上具有与前轮支架的管腔相通的通孔，所述的杆件能够滑动地插在所述的前轮支架的管腔内，或者所述的杆件能够滑动地插在所述的前轮支架的管腔与所述的通孔内；所述的前轮支架沿其长度方向开有滑动槽，或者所述的前轮支架与所述的弯形连接件上都沿着所述的前轮支架的长度方向开有滑动槽，所述的座位杆的前端部与所述的杆件通过所述的滑动槽相转动地连接。

当童车处于打开状态下，所述的杆件的下端部位于前轮支架的管腔内或者位于所述的通孔内，当童车处于折叠状态下，所述的杆件的下端部伸出所述的通孔。

所述的杆件为童车的推杆。

所述的杆件上可转动地连接有调节把，该调节把与所述的杆件之间设置有锁定机构。当将锁定机构解锁后，调节把相对杆件转动从而可调整童车的高度。当童车处于折叠状态下，所述的调节把也可以相对所述的杆件折叠收拢。

由于上述技术方案运用，本发明与现有技术相比具有下列优点：由于杆件

相对前轮支架滑动，当杆件滑至与前轮同时着地后便对折叠后的童车形成支撑，因而该自立机构结构较简单，包含有该自立机构的童车的结构也简单，并且折叠后体积较小，较整齐。

附图说明

附图 1 为本发明的展开主视图；

附图 2 为本发明的展开立体图；

附图 3 为本发明的半折叠主视图；

附图 4 为本发明的半折叠立体图；

附图 5 为本发明的折叠主视图；

附图 6 为本发明的折叠主视图；

附图 7 为附图 1 的 A 处放大图；

附图 8 为附图 4 的 B 处放大图。

其中：1、前轮支架；2、后轮支架；3、杆件；4、座位杆；5、前轮接头；6、第一转轴；7、第二转轴；8、第三转轴；9、通孔；10、调节把；11、滑动槽；12、前轮组件；13、后轮组件。

具体实施方式

如附图 1-附图 7 所示，一种可折叠童车的自立机构，包括前轮支架 1、上端部与所述的前轮支架 1 下端部相连接的弯形连接件 5、设置在所述的弯形连接件 5 下端部的前轮组件 12，所述的前轮组件 12 位于所述的前轮支架 1 的下方，所述的前轮支架 1 上沿其长度方向可滑动地设置有杆件 3，所述的杆件 3 的长度方向与前轮支架 1 的长度方向相一致，当童车处于折叠状态下，所述的前轮组件 12 及所述的杆件 3 的下端部着地形成对可折叠童车的支撑。

所述的前轮支架 1 为具有管腔的管件，所述的弯形连接件 5 上具有与前轮支架 1 的管腔相通的通孔 9，所述的杆件 3 能够滑动地插在所述的前轮支架 1 的管腔内，或者所述的杆件 3 能够滑动地插在所述的前轮支架 1 的管腔与所述的通孔 9 内。

当童车处于打开状态下，所述的杆件 3 的下端部位于前轮支架 1 的管腔内或者位于所述的通孔内，当童车处于折叠状态下，所述的杆件 3 的下端部伸出所述的通孔 9。

一种包含有权利要求 1 的自立机构的可折叠童车，其具有打开状态与折叠状态，包括前轮支架 1、后轮支架 2、与所述的后轮支架 2 相转动连接的座位杆

4、用于将所述的童车锁定于打开状态的锁定装置、前轮组件 12、设置在所述的后轮支架 2 下部的后轮组件 13，所述的前轮支架 1 的下端部连接有弯形连接件 5 的上端部、所述的前轮组件 12 设置于所述的弯形连接件 5 下端部，所述的前轮组件 12 位于所述的前轮支架 1 的下方，当童车处于打开状态下，所述的前轮组件 12 及所述的后轮组件 13 着地形成对可折叠童车的支撑，

所述的前轮支架 1 上沿其长度方向可滑动地设置有杆件 3，所述的杆件 3 的长度方向与前轮支架 1 的长度方向相一致，所述的座位杆 4 的前端部与所述的杆件 3 相转动地连接，所述的后轮支架 2 的上端部与所述的前轮支架 1 的上端部相转动地连接，当童车处于折叠状态下，所述的前轮组件 12 及所述的杆件 3 的下端部着地形成对可折叠童车的支撑。

如附图 8 所示，所述的前轮支架 1 为具有管腔的管件，所述的弯形连接件 5 上具有与前轮支架 1 的管腔相通的通孔 9，所述的杆件 3 能够滑动地插在所述的前轮支架 1 的管腔内，或者所述的杆件 3 能够滑动地插在所述的前轮支架 1 的管腔与所述的通孔 9 内；所述的前轮支架 1 与所述的弯形连接件 5 上都沿着所述的前轮支架 1 的长度方向开有滑动槽 11，所述的座位杆 4 的前端部与所述的杆件 3 通过所述的滑动槽 11 相转动地连接。

当童车处于打开状态下，所述的杆件 3 的下端部位于前轮支架 1 的管腔内或者位于所述的通孔 9 内，当童车处于折叠状态下，所述的杆件 3 的下端部伸出所述的通孔 9。

所述的杆件 3 为童车的推杆。

所述的杆件 3 上可转动地连接有调节把 10，该调节把 10 与所述的杆件 3 之间设置有锁定机构。

本发明所涉及的前、后等方位词是的童车处于打开状态下作定义的，童车上前轮所在的位置为前，后轮所在的位置为后。

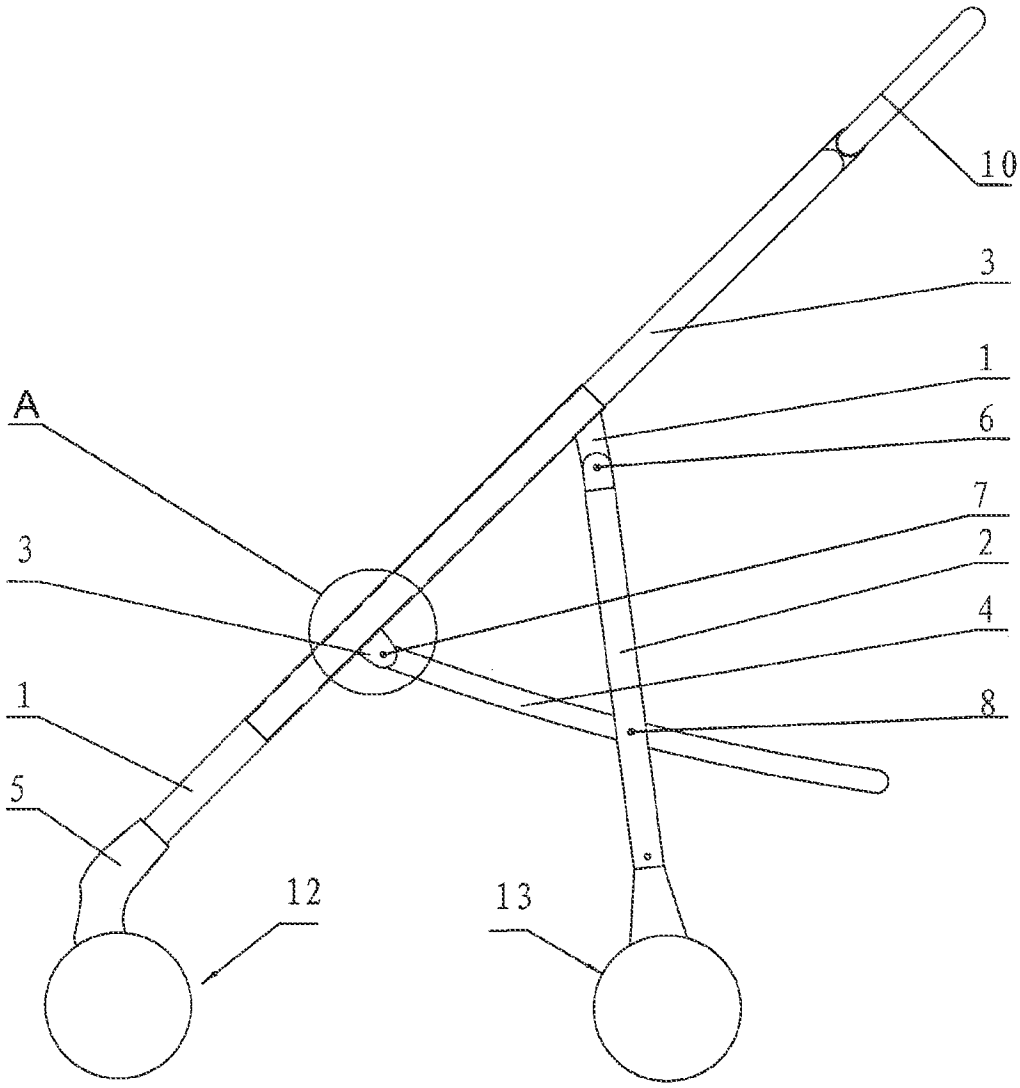


图1

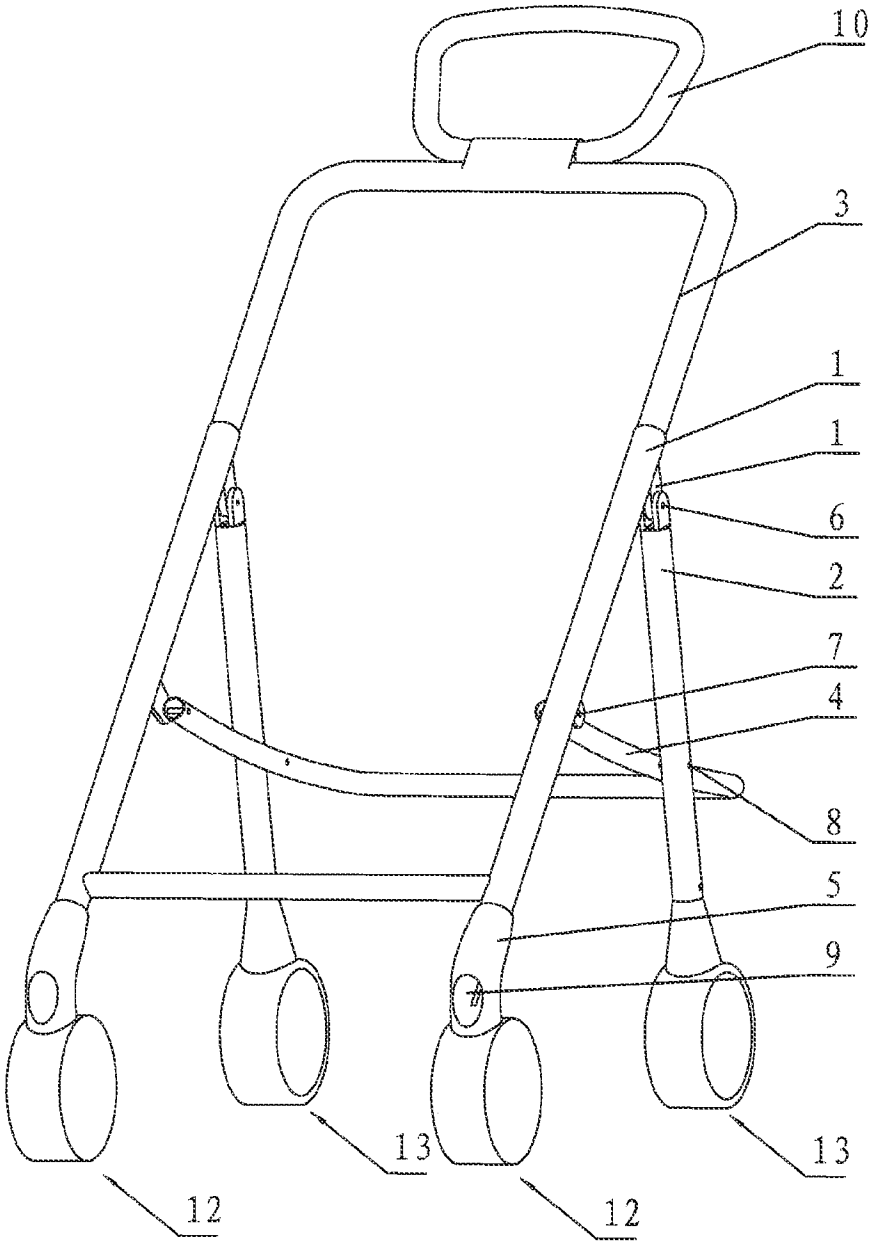


图2

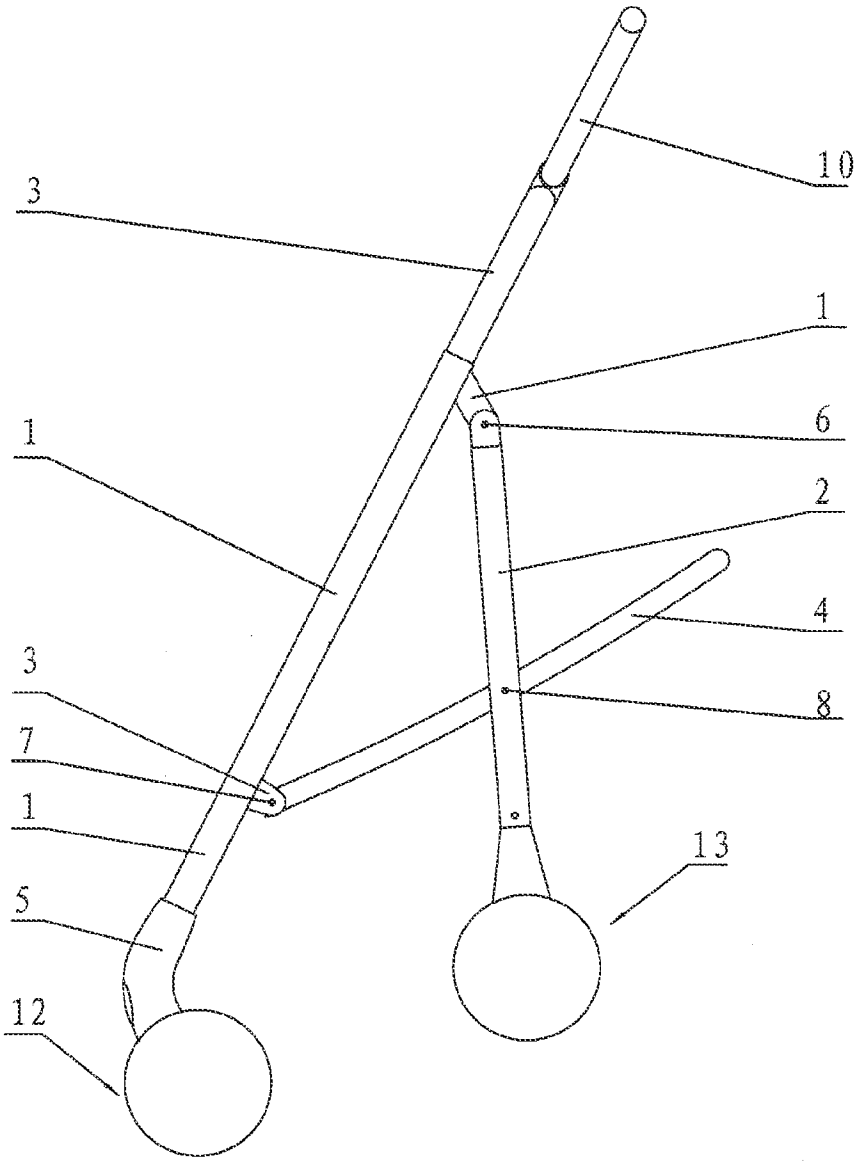


图3

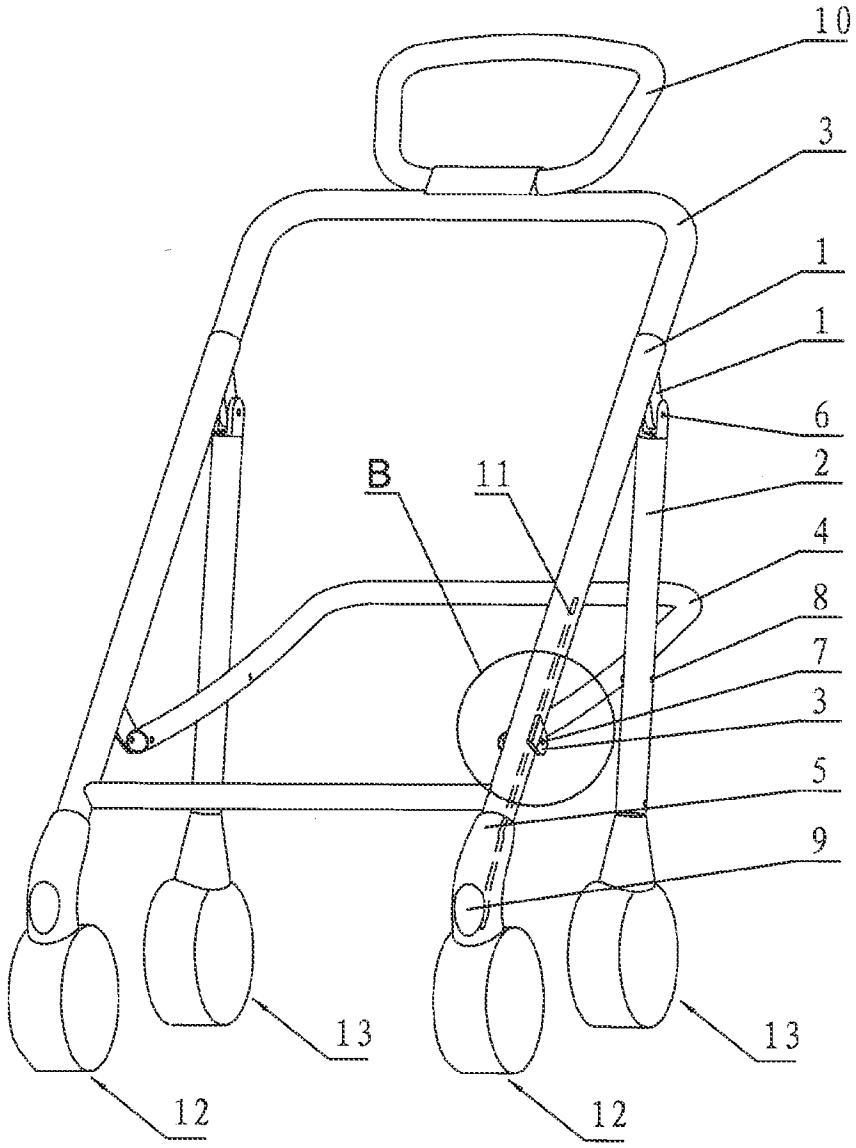


图4

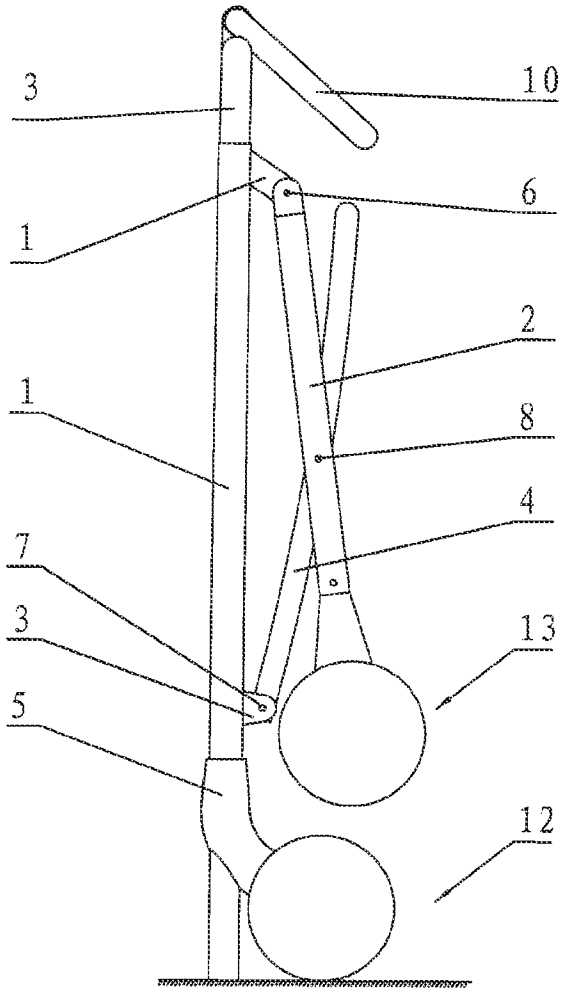


图5

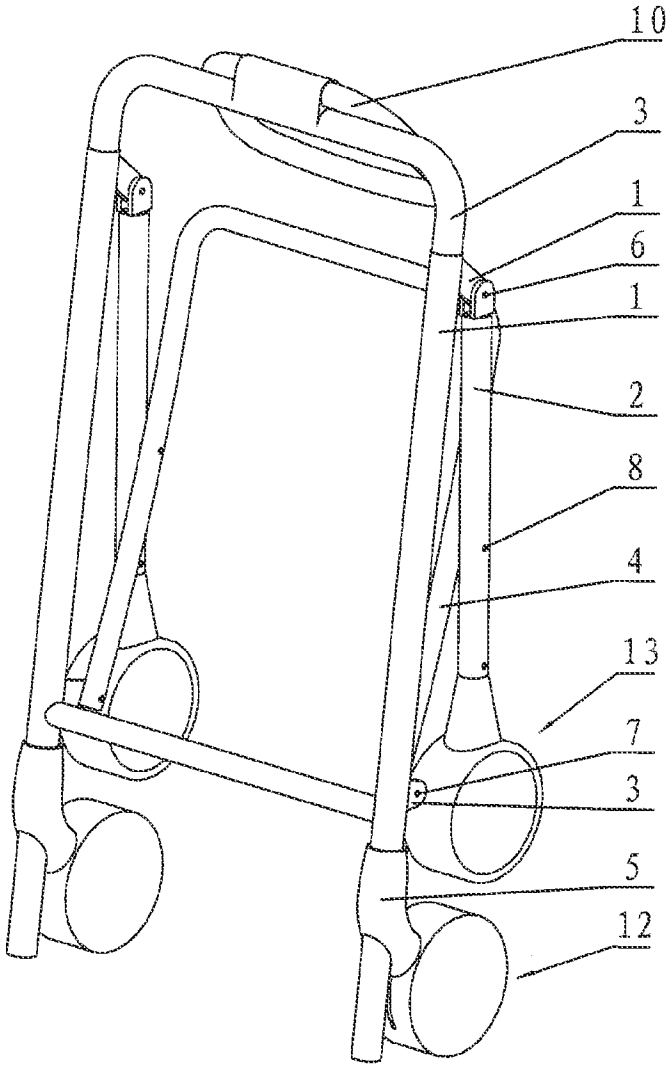


图6

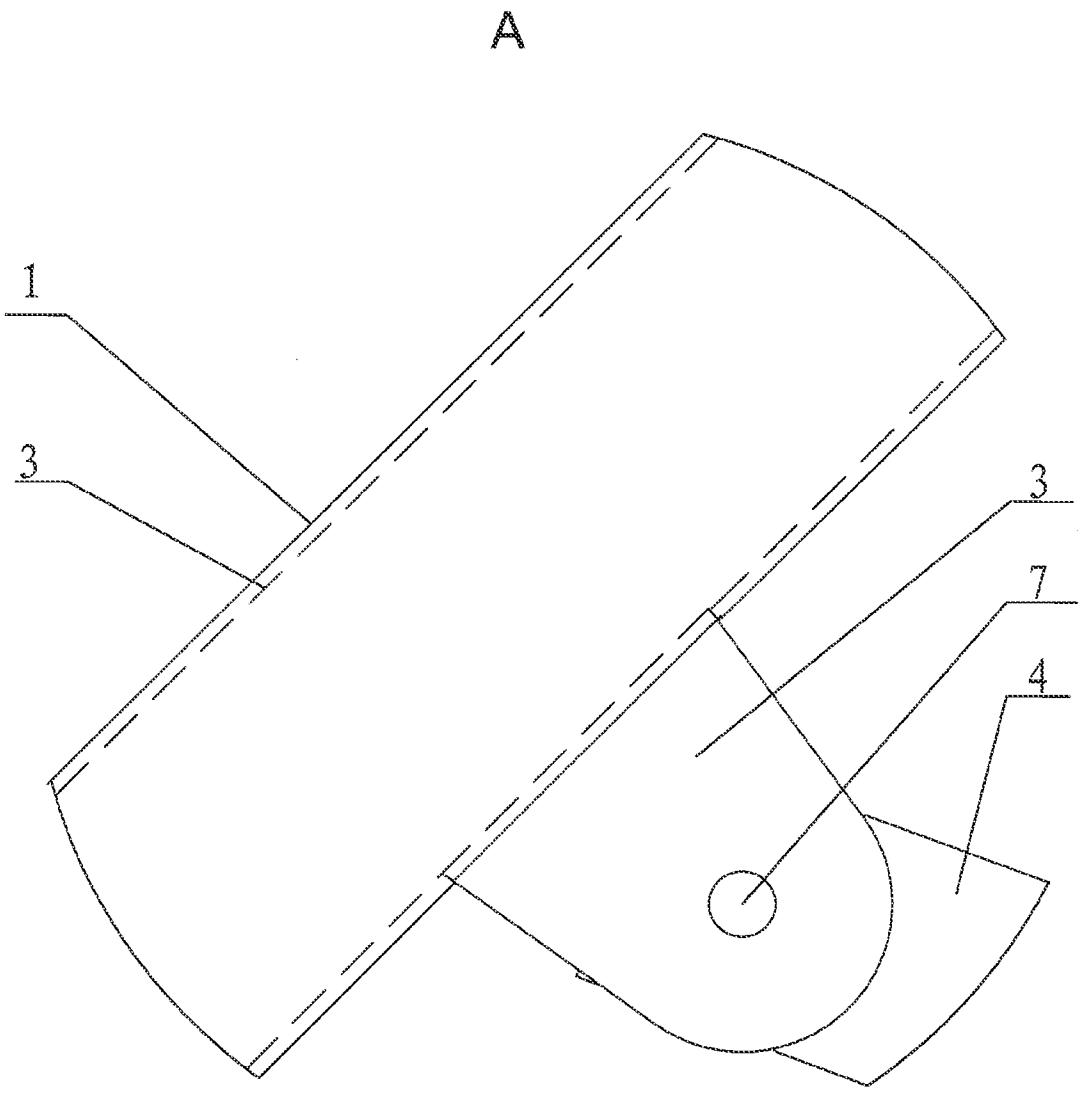


图7

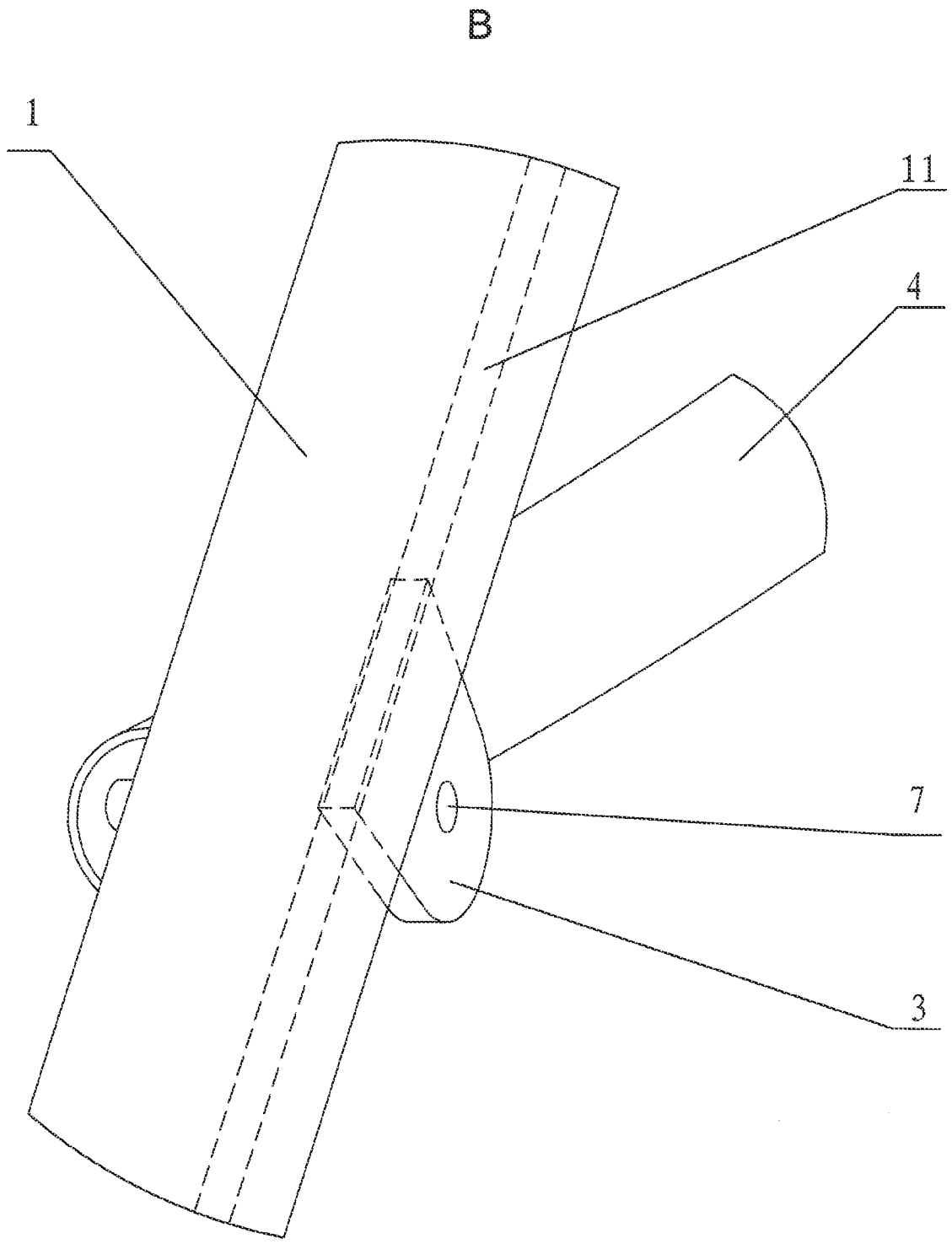


图8

Espacenet

CN201214440Y Bidirectional collapsible cart

Applicants: GOODBABY CHILD PRODUCTS CO LTD [CN]

Inventors: FENG LIU [CN],BINGQUAN ZHANG [CN]

Classifications:
IPC ***B62B7/06;***

Priorities: CN200820036177U 2008-05-15

Application: CN200820036177U·2008-05-15

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Bidirectional collapsible cart

Abstract

The utility model relates to a two-directional folding cart; the frame of the cart comprises a first front wheel support, a second front wheel support with the lower part connected with the lower part of the first front wheel support in a rotating way, a first push rod and a second push rod with the lower part connected with the upper part of the first front wheel support and the upper part of the second front wheel support in the rotating way, a rear wheel support which is formed by the connection of a first rear wheel support and a second rear wheel support in a cross rotation way, a connecting base connected with the first rear wheel support and the second rear wheel support in a rotating way, a first chassis and a second chassis with the rear end connected with the connecting base in a rotating way, and a locking device; the upper part of the first push rod and the upper part of the second push rod are arranged in a rotating way; the upper end of the first rear wheel support and the lower end of the first push rod are arranged in a rotating way; the upper end of the second rear wheel support and the second push rod are arranged in a rotating way; the front end of the first chassis and the first front wheel support are arranged in a rotating way; the front end of the second chassis and the second front wheel support are arranged in a rotating way; quite few bars of the cart frame are needed, so the cost is low.

[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
B62B 7/06 (2006.01)

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[21] 申请号 200820036177.7
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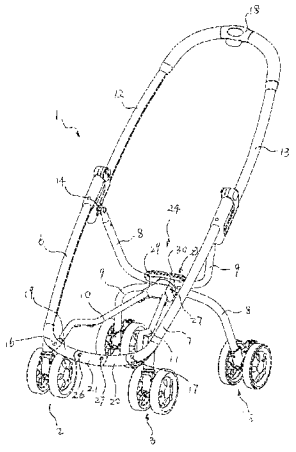
[74] 专利代理机构 苏州创元专利商标事务所有限公司
代理人 孙仿卫
权利要求书 2 页 说明书 6 页 附图 3 页

[54] 实用新型名称

双向折叠车

[57] 摘要

一种双向折叠车，其推车车架包括第一前轮支架、下部与第一前轮支架的下部相转动设置的第二前轮支架、下部分别与第一前轮支架的上部及第二前轮支架的上部相转动连接的第一推杆及第二推杆、由第一后轮支架及第二后轮支架交叉转动连接形成的后轮支架、分别与第一后轮支架及第二后轮支架相转动连接的连接座、后端部分别与连接座相转动连接的第一底架及第二底架、锁定装置，第一推杆的上部与第二推杆的上部相转动地设置，第一后轮支架的上端部与第一推杆的下端部相转动设置，第二后轮支架的上端部与第二推杆相转动设置，第一底架的前端部与第一前轮支架相转动设置，第二底架的前端部与第二前轮支架相转动设置，推车车架杆件较少，成本较低。



1、一种双向折叠车，包括具有打开状态与折叠状态的推车车架（1），其特征在于：该双向折叠车的推车车架（1）包括

第一前轮支架（6），所述的第一前轮支架（6）的下部设置有第一前轮组件（2）；

第二前轮支架（7），所述的第二前轮支架（7）的下部设置有第二前轮组件（3），所述的推车车架（1）从打开状态转换到折叠状态时，所述的第一前轮支架（6）与所述的第二前轮支架（7）都向对方靠拢；

第一推杆（12），所述的第一推杆（12）的下部与所述的第一前轮支架（6）的上部相转动连接；

第二推杆（13），所述的第二推杆（13）的下部与所述的第二前轮支架（7）的上部相转动连接，所述的第一推杆（12）的上部与所述的第二推杆（13）的上部相转动地设置，所述的推车车架（1）从打开状态转换到折叠状态时，所述的第一推杆（12）与所述的第二推杆（13）都向对方靠拢；

后轮支架（24），所述的后轮支架（24）是由第一后轮支架（8）及第二后轮支架（9）相交叉并在交叉处通过第一轴（25）相转动连接形成的，所述的第一后轮支架（8）的下部设置有第二后轮组件（5），所述的第二后轮支架（9）的下部设置有第一后轮组件（4），所述的第一后轮支架（8）的上端部通过第一转动关节（14）与所述的第一推杆（12）的下端部相转动连接，所述的第一转动关节（14）使得所述的第一后轮支架（8）的上端部与所述的第一推杆（12）的下端部之间至少可以在两个相交的平面方向上转动，所述的第二后轮支架（9）的上端部通过第二转动关节（15）与所述的第二推杆（13）相转动连接，所述的第二转动关节（15）使得所述的第二后轮支架（9）的上端部与所述的第二推杆（13）的下端部之间至少可以在两个相交的平面方向上转动；

连接座（23），所述的连接座（23）也通过所述的第一轴（25）分别与所述的第一后轮支架（8）、所述的第二后轮支架（9）相转动连接；

第一底架（10），所述的第一底架（10）的后端部与所述的连接座（23）相转动连接，所述的第一底架（10）的前端部通过第三转动关节与所述的第一前轮支架（6）相转动连接，所述的第三转动关节使得所述的第一前轮支架（6）的下端部与所述的第一底架（10）的前端部之间至少可以在两个相交的平面方向上转动；

第二底架（11），所述的第二底架（11）的后端部与所述的连接座（23）相

转动连接，所述的第二底架（11）的前端部通过所述的第四转动关节与所述的第二前轮支架（7）相转动连接，所述的第四转动关节使得所述的第二前轮支架（7）的下端部与所述的第二底架（11）的前端部之间至少可以在两个相交的平面方向上转动；

第一连杆（19），所述的第一连杆（19）的一端部与所述的第一前轮支架（6）的下端部通过第二轴（16）相枢轴连接；

第二连杆（20），所述的第二连杆（20）的一端部与所述的第二前轮支架（7）的下端部通过第三轴（17）相枢轴连接；

连接杆（21），所述的连接杆（21）的两端部通过第四轴（26）及第五轴（27）分别与所述的第一连杆（19）的另一端部、所述的第二连杆（20）的另一端部相枢轴连接；

锁定装置，所述的锁定装置使得所述的推车车架（1）具有稳定地处于打开状态的趋势。

2、根据权利要求 1 所述的双向折叠车，其特征在于：所述的第一推杆（12）的上端部可转动地连接的推杆把（18）的一端部，所述的推杆把（18）的另一端部与所述的第二推杆（13）的上端部相转动连接。

3、根据权利要求 1 所述的双向折叠车，其特征在于：当所述的推车车架（1）处于打开状态下，所述的第二轴（16）、第三轴（17）、第四轴（26）及所述的第五轴（27）都垂直于第一前轮支架（6）、第一连杆（19）、连接杆（21）、第二连杆（20）及第二前轮支架（7）所构成的平面。

4、根据权利要求 1 所述的双向折叠车，其特征在于：所述的连接座（23）上设有第一限位件（29）及第二限位件（30），当所述的推车车架（1）处于打开状态下，所述的第一底架（10）抵在所述的第一限位件（29）上，所述的第二底架（11）抵在所述的第二限位件（30）上。

5、根据权利要求 1 所述的双向折叠车，其特征在于：所述的第一后轮支架（8）与所述的第二后轮支架（9）之间设置有锁定机构。

双向折叠车

技术领域

本发明涉及一种儿童推车，尤其是双向折叠的儿童推车。

背景技术

现有技术中的双向折叠车，包括用于在打开状态与折叠状态之间转换的推车车架；分别设置在所述的推车车架的下前部的左右两侧的第一前轮组件及第二前轮组件；分别设置在所述的推车车架的下后部的左右两侧的第一后轮组件及第二后轮组件。所述的推车车架包括第一推杆、第二推杆、上端部与所述的第一推杆的下部转动连接的第一后轮支架、上端部与所述的第二推杆的下部转动连接的第二后轮支架、上端部与所述的第一推杆的下端部转动连接的第一前轮支架、上端部与所述的第二推杆的下端部转动连接的第二前轮支架、设置于所述的第一后轮支架与所述的第二后轮支架之间可折叠的横撑架、两根杆件呈十字交叉并在交叉处相转动连接的后十字撑架、可转动地设置于所述的第一前轮支架与所述的第一后轮支架之间的第一连杆、可转动地设置于所述的第二前轮支架与所述的第二后轮支架之间的第二连杆、两根杆件呈十字交叉并在交叉处相转动连接的底十字撑架，所述的后十字撑架设置于第一后轮支架、第二后轮支架、第一推杆、第二推杆之间，所述的底十字撑架设置于所述的第一前轮支架、第二前轮支架、第一后轮支架、第二后轮支架之间。推车车架的杆件较多，成本较高。

发明内容

本发明目的是提供一种双向折叠车，其推车车架结构简单，成本较低。

本发明采用的技术方案是：一种双向折叠车，包括具有打开状态与折叠状态的推车车架，该双向折叠车的推车车架包括

第一前轮支架，所述的第一前轮支架的下部设置有第一前轮组件；

第二前轮支架，所述的第二前轮支架的下部设置有第二前轮组件，所述的推车车架从打开状态转换到折叠状态时，所述的第一前轮支架与所述的第二前轮支架都向对方靠拢；

第一推杆，所述的第一推杆的下部与所述的第一前轮支架的上部相转动连接；

第二推杆，所述的第二推杆的下部与所述的第二前轮支架的上部相转动连

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接，所述的第一推杆的上部与所述的第二推杆的上部相转动地设置，所述的推车车架从打开状态转换到折叠状态时，所述的第一推杆与所述的第二推杆都向对方靠拢；

后轮支架，所述的后轮支架是由第一后轮支架及第二后轮支架相交叉并在交叉处通过第一轴相转动连接形成的，所述的第一后轮支架的下部设置有第二后轮组件，所述的第二后轮支架的下部设置有第一后轮组件，所述的第一后轮支架的上端部通过第一转动关节与所述的第一推杆的下端部相转动连接，所述的第一转动关节使得所述的第一后轮支架的上端部与所述的第一推杆的下端部之间至少可以在两个相交的平面方向上转动，所述的第二后轮支架的上端部通过第二转动关节与所述的第二推杆相转动连接，所述的第二转动关节使得所述的第二后轮支架的上端部与所述的第二推杆的下端部之间至少可以在两个相交的平面方向上转动；

连接座，所述的连接座也通过所述的第一轴分别与所述的第一后轮支架、所述的第二后轮支架相转动连接；

第一底架，所述的第一底架的后端部与所述的连接座相转动连接，所述的第一底架的前端部通过第三转动关节与所述的第一前轮支架相转动连接，所述的第三转动关节使得所述的第一前轮支架的下端部与所述的第一底架的前端部之间至少可以在两个相交的平面方向上转动；

第二底架，所述的第二底架的后端部与所述的连接座相转动连接，所述的第二底架的前端部通过所述的第四转动关节与所述的第二前轮支架相转动连接，所述的第四转动关节使得所述的第二前轮支架的下端部与所述的第二底架的前端部之间至少可以在两个相交的平面方向上转动；

第一连杆，所述的第一连杆的一端部与所述的第一前轮支架的下端部通过第二轴相枢轴连接；

第二连杆，所述的第二连杆的一端部与所述的第二前轮支架的下端部通过第三轴相枢轴连接；

连接杆，所述的连接杆的两端部通过第四轴及第五轴分别与所述的第一连杆的另一端部、所述的第二连杆的另一端部相枢轴连接；

锁定装置，所述的锁定装置使得所述的推车车架具有稳定地处于打开状态的趋势，凡是能将推车车架锁定于展开位置的锁定机构都能使用。折叠时，先将锁定装置解锁，将第一推杆上部与第二推杆的上部都向前倒，第一推杆的下

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端部及第二推杆的下端部分别带动第一后轮支架的上端部及第二后轮支架的上端部向上移，从而使得第一后轮支架的上部与第二后轮支架的上部相靠拢，并且第一底架与第二底架相对连接座转动，第一底架与第二底架相靠拢并与第一前轮支架与第二前轮支架靠拢，第一前轮支架与第二前轮支架相靠拢，同时第一连杆与第二连杆分别相对第一前轮支架与第二前轮支架折叠，并且使得连接杆向下凸出。

所述的第一推杆的上端部可转动地连接的推杆把的一端部，所述的推杆把的另一端部与所述的第二推杆的上端部相转动连接。

当所述的推车车架处于打开状态下，所述的第二轴、第三轴、第四轴及所述的第五轴都垂直于第一前轮支架、第一连杆、连接杆、第二连杆及第二前轮支架所构成的平面。

所述的连接座上设有第一限位件及第二限位件，当所述的推车车架处于打开状态下，所述的第一底架抵在所述的第一限位件上，所述的第二底架抵在所述的第二限位件上。

所述的第一后轮支架与所述的第二后轮支架之间设置有锁定机构。

本发明与现有技术相比，具有下列优点：

在所述的第一后轮支架与所述的第二后轮支架之间无需使用横撑架、并且推车车架也省去了后十字撑架及底十字撑架，因而推车车架杆件较少，降低了成本，折叠后，第一前轮组件、第二前轮组件以及所述的连接杆同时着地，因而推车车架折叠后能自立。

附图说明

附图 1 为本发明的打开立体图；

附图 2 为本发明的折叠主视图；

附图 3 为本发明的折叠立体图。

其中：1、推车车架；2、第一前轮组件；3、第二前轮组件；4、第一后轮组件；5、第二后轮组件；6、第一前轮支架；7、第二前轮支架；8、第一后轮支架；9、第二后轮支架；10、第一底架；11、第二底架；12、第一推杆；13、第二推杆；14、第一转动关节；15、第二转动关节；16、第二轴；17、第三轴；18、推杆把；19、第一连杆；20、第二连杆；21、连接杆；23、连接座；24、后轮支架；25、第一轴；26、第四轴；27、第五轴；29、第一限位件；30、第二限位件。

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具体实施方式

参见各附图，一种双向折叠车，包括

用于在打开状态与折叠状态之间转换的推车车架 1;设置在所述的推车车架 1 上的布套，布套在各附图中均无显示，分别设置在所述的推车车架 1 的下前部的左右两侧的第一前轮组件 2 及第二前轮组件 3; 分别设置在所述的推车车架 1 的下后部的左右两侧的第一后轮组件 4 及第二后轮组件 5。

所述的推车车架 1 包括

第一前轮支架 6,所述的第一前轮组件 2 设置于所述的第一前轮支架 6 的下部;

第二前轮支架 7，所述的推车车架 1 从打开状态转换到折叠状态时，所述的第一前轮支架 6 与所述的第二前轮支架 7 都向对方靠拢,所述的第二前轮组件 3 设置于所述的第二前轮支架 7 的下部;

第一推杆 12,所述的第一推杆 12 的下部与所述的第一前轮支架 6 的上部相转动连接;

第二推杆 13,所述的第二推杆 13 的下部与所述的第二前轮支架 7 的上部相转动连接，如各附图所示，所述的第一推杆 12 的上端部可转动地连接的推杆把 18 的一端部，所述的推杆把 18 的另一端部与所述的第二推杆 13 的上端部相转动连接，所述的推车车架 1 从打开状态转换到折叠状态时，所述的第一推杆 12 与所述的第二推杆 13 都向对方靠拢;

后轮支架 24，如各附图所示，所述的后轮支架 24 是由第一后轮支架 8 及第二后轮支架 9 相交叉并在交叉处通过第一轴 25 相转动连接形成的，所述的第一后轮支架 8 的上端部通过第一转动关节 14 与所述的第一推杆 12 的下端部相转动连接，所述的第一转动关节 14 使得所述的第一后轮支架 8 的上端部与所述的第一推杆 12 的下端部之间至少可以在两个相交的平面方向上转动，所述的第二后轮支架 9 的上端部通过第二转动关节 15 与所述的第二推杆 13 相转动连接，所述的第二转动关节 15 使得所述的第二后轮支架 9 的上端部与所述的第二推杆 13 的下端部之间至少可以在两个相交的平面方向上转动，所述的第一后轮组件 4 设置于所述的第二后轮支架 9 的下部,所述的第二后轮组件 5 设置于所述的第一后轮支架 8 的下部;

连接座 23，所述的连接座 23 也通过所述的第一轴 25 分别与所述的第一后轮支架 8、所述的第二后轮支架 9 相转动连接;

第一底架 10，所述的第一底架 10 的后端部通过转轴与所述的连接座 23 相转动连接，所述的第一底架 10 的前端部通过第三转动关节与所述的第一前轮支架 6 相转动连接，所述的第三转动关节使得所述的第一前轮支架 6 的下端部与所述的第一底架 10 的前端部之间至少可以在两个相交的平面方向上转动；

第二底架 11，所述的第二底架 11 的后端部通过转轴与所述的连接座 23 相转动连接，所述的第二底架 11 的前端部通过所述的第四转动关节与所述的第二前轮支架 7 相转动连接，所述的第四转动关节使得所述的第二前轮支架 7 的下端部与所述的第二底架 11 的前端部之间至少可以在两个相交的平面方向上转动；

第一连杆 19，所述的第一连杆 19 的一端部与所述的第一前轮支架 6 的下端部通过第二轴 16 相枢轴连接；

第二连杆 20，所述的第二连杆 20 的一端部与所述的第二前轮支架 7 的下端部通过第三轴 17 相枢轴连接；

连接杆 21，所述的连接杆 21 的两端部通过第四轴 26 及第五轴 27 分别与所述的第一连杆 19 的另一端部、所述的第二连杆 20 的另一端部相枢轴连接；

锁定装置，所述的锁定装置使得所述的推车车架 1 具有稳定地处于打开状态的趋势，该锁定装置可以是在所述的第一前轮支架 6、第二前轮支架 7 上分别开有锁槽，在第一推杆 12、第二推杆 13 上分别滑动地设有锁销，当锁定装置锁定时，所述的锁销插在相应的所述的锁槽内。

当所述的推车车架 1 处于打开状态下，所述的第二轴 16、第三轴 17、第四轴 26 及所述的第五轴 27 都垂直于第一前轮支架 6、第一连杆 19、连接杆 21、第二连杆 20 及第二前轮支架 7 所构成的平面。

如附图 1 所示，所述的连接座 23 上设有第一限位件 29 及第二限位件 30，当所述的推车车架 1 处于打开状态下，所述的第一底架 10 抵在所述的第一限位件 29 上，所述的第二底架 11 抵在所述的第二限位件 30 上。

如附图 3、附图 4 所示，所述的第一后轮支架 8 与所述的第二后轮支架 9 之间设置有第一弹性件 22，所述的第一弹性件 22 使得所述的推车车架 1 具有趋于进入折叠状态的趋势。

所述的第一后轮支架与所述的第二后轮支架之间设置有锁定机构，该锁定机构用于使得第一后轮支架与第二后轮支架在打开状态下刚性更好。

所述的锁定机构可以是包括开设在所述的第一后轮支架 8 上的第一花键槽、

开设在所述的第二后轮支架 9 上的第二花键槽、与所述的第一后轮支架 8 及所述的第二后轮支架 9 都相滑动地设置的花键，当所述的推车车架 1 处于打开状态下，所述的花键分别插在所述的第一花键槽与所述的第二花键槽中，当所述的推车车架处于折叠状态下，所述的花键至少与所述的第一花键槽、所述的第二花键槽两个槽中的一个相脱离。

本实施例中所述的前端部、后端部、上端部及下端部等都是在所述的推车车架 1 处于打开状态下定义的。

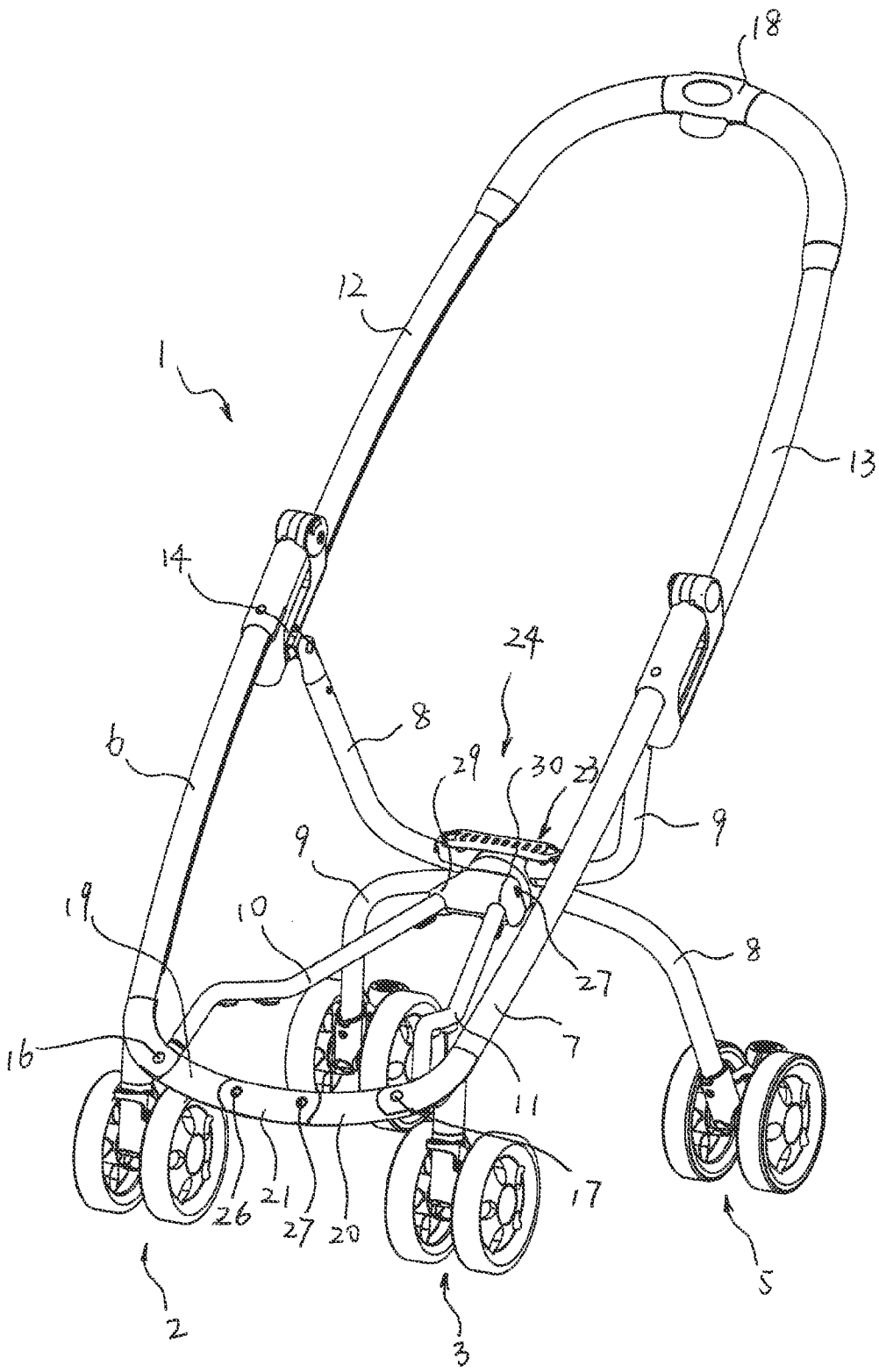


图1

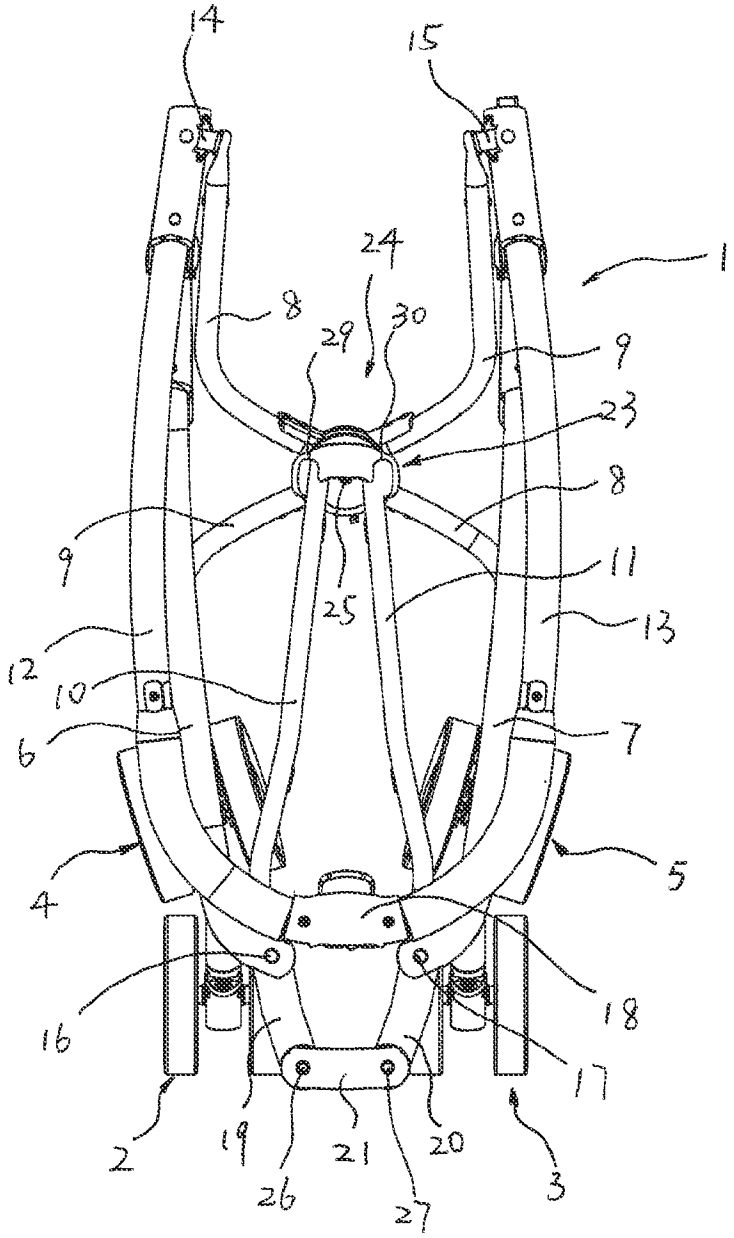


图2

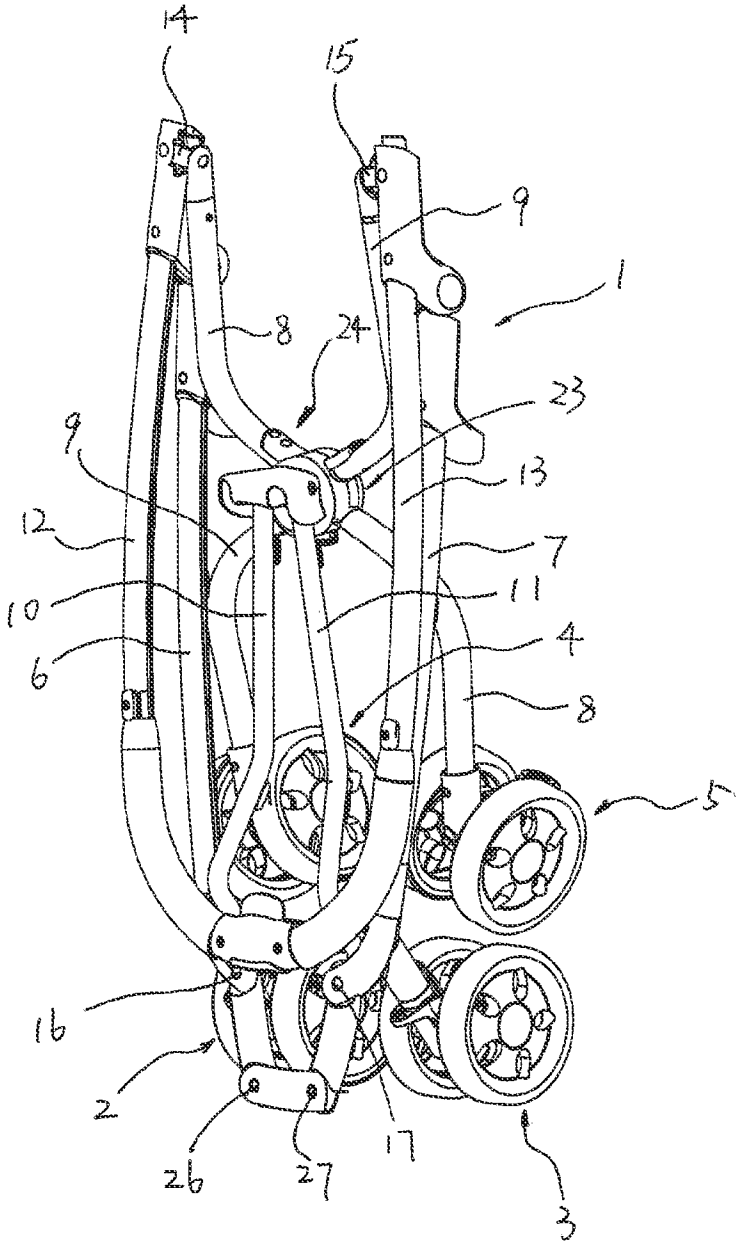


图3

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/876,492

APPLICATION AS FILED - PART I

	(Column 1)		(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED		NUMBER EXTRA	RATE($)	FEE($)		RATE($)	FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A		N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A		N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A		N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	30	minus 20 =	* 10			OR	x 100 =	1000
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 =	*				x 480 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))								0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL			TOTAL	2820

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1)		(Column 2)	(Column 3)					
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/876,492	07/28/2022	3636	2820	34757-2680 REFILE	30	3

CONFIRMATION NO. 4904

134811
Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

FILING RECEIPT



Date Mailed: 08/10/2022

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Jon Hee LEE, Highwood, IL;
Megan ROE, Kalamazoo, MI;
Stacy Noel SIMPSON, Portage, MI;
Mark ZEHFUSS, Glen Allen, VA;

Applicant(s)

Baby Jogger, LLC, Atlanta, GA;

Assignment For Published Patent Application

Baby Jogger, LLC, Atlanta, GA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 16/903,292 06/16/2020
which is a CON of 15/912,901 03/06/2018 PAT 10730543
which is a CON of 15/225,326 08/01/2016 PAT 9944305
which claims benefit of 62/311,224 03/21/2016
and is a CIP of 14/597,420 01/15/2015 PAT 9403550
which is a CON of 14/261,558 04/25/2014 PAT 8955869
which is a CON of 12/633,751 12/08/2009 PAT 8474228
which claims benefit of 61/119,920 12/04/2008

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/09/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/876,492**

Projected Publication Date: 11/17/2022

Non-Publication Request: No

Early Publication Request: No

Title

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Preliminary Class

297

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign

patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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To: patentdocket@eversheds-sutherland.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 134811

Aug 10, 2022 05:08:57 AM

Dear PAIR Customer:

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 134811 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
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Application	Document	Mailroom Date	Attorney Docket No.
17876492	APP.FILE.REC	08/10/2022	34757-2680 REFILE

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	17/876,492
Filing Date	2022-07-28
First Named Inventor	Jon Hee LEE
Title	REMOVABLE SEAT ATTACHMENT FOR A STROLLER
Art Unit	3618
Examiner Name	Not Yet Assigned
Attorney Docket Number	34757-2680

SIGNATURE of Applicant or Patent Practitioner

Signature	/Umar R. Bakhsh/	Date (Optional)	
Name	Umar R. Bakhsh	Registration Number	67,307
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	Baby Jogger, LLC		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 134811

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

BABY JOGGER, LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/Karen Bonelli/	Date (Optional)	12 Sept 2015
Name	Karen Bonelli		
Title	Assistant Secretary, Chief Patent Counsel		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	46401799
Application Number:	17876492
International Application Number:	
Confirmation Number:	4904
Title of Invention:	REMOVABLE SEAT ATTACHMENT FOR A STROLLER
First Named Inventor/Applicant Name:	Jon Hee LEE
Customer Number:	134811
Filer:	Umar Rahim Bakhsh/Angela Staschke
Filer Authorized By:	Umar Rahim Bakhsh
Attorney Docket Number:	34757-2680
Receipt Date:	12-AUG-2022
Filing Date:	28-JUL-2022
Time Stamp:	14:05:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA-2680_.pdf	742675 0526ee5c3a008990c608b39fa5a58c42176002ef	no	2

Warnings:

Information:	
Total Files Size (in bytes):	742675

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/876,492	07/28/2022	Jon Hee LEE	34757-2680

CONFIRMATION NO. 4904

134811
Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

POA ACCEPTANCE LETTER

OC000000135853203

Date Mailed: 08/18/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/12/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/fstephanos/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/876,492	07/28/2022	OPAP	2820	34757-2680	30	3

CONFIRMATION NO. 4904

CORRECTED FILING RECEIPT

134811
Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

OC000000135852651

Date Mailed: 08/18/2022

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Inventor(s)

Jon Hee LEE, Highwood, IL;
Megan ROE, Kalamazoo, MI;
Stacy Noel SIMPSON, Portage, MI;
Mark ZEHFUSS, Glen Allen, VA;

Applicant(s)

Baby Jogger, LLC, Atlanta, GA;

Assignment For Published Patent Application

Baby Jogger, LLC, Atlanta, GA

Power of Attorney: The patent practitioners associated with Customer Number 134811

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This application is a CON of 16/903,292 06/16/2020
which is a CON of 15/912,901 03/06/2018 PAT 10730543
which is a CON of 15/225,326 08/01/2016 PAT 9944305
which claims benefit of 62/311,224 03/21/2016
and is a CIP of 14/597,420 01/15/2015 PAT 9403550
which is a CON of 14/261,558 04/25/2014 PAT 8955869
which is a CON of 12/631,375 12/04/2009 ABN
which claims benefit of 61/119,920 12/04/2008

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Permission to Access Search Results: Yes

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If Required, Foreign Filing License Granted: 08/09/2022

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Projected Publication Date: 11/24/2022

Non-Publication Request: No

Early Publication Request: No

Title

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Preliminary Class

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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign

patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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17876492	N570	08/18/2022	34757-2680
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/876,492	07/28/2022	Jon Hee LEE	34757-2680	4904

134811 7590 09/02/2022

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

EXAMINER	
CENTRAL, DOCKET	

ART UNIT	PAPER NUMBER
OPAP	

NOTIFICATION DATE	DELIVERY MODE
09/02/2022	ELECTRONIC

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Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 17/876,492	**Applicant(s)** LEE et al.	
	Examiner FIKIRTE A GEREMEW	**Art Unit** OMBL	**AIA (FITF) Status** No

1. THE REQUEST FILED 28 July 2022 IS **GRANTED** .

   The above-identified application has met the requirements for prioritized examination
   - A. ☑ for an original nonprovisional application (Track I).
   - B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:
   - A. filing a **petition for extension of time** to extend the time period for filing a reply;
   - B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;
   - C. filing a **request for continued examination** ;
   - D. filing a notice of appeal;
   - E. filing a request for suspension of action;
   - F. mailing of a notice of allowance;
   - G. mailing of a final Office action;
   - H. completion of examination as defined in 37 CFR 41.102; or
   - I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to FIKIRTE GEREMEW at (703) 756-1930. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/FIKIRTE A GEREMEW/ PROGRAM SUPPORT ASSISTANT, OMBL	

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Application	Document	Mailroom Date	Attorney Docket No.
17876492	TRACK1.GRANT	09/02/2022	34757-2680

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/876,492	07/28/2022	Jon Hee LEE	34757-2680	4904

134811 7590 09/29/2022

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

EXAMINER	
DOLAK, JAMES M	

ART UNIT	PAPER NUMBER
3618	

NOTIFICATION DATE	DELIVERY MODE
09/29/2022	ELECTRONIC

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Office Action Summary	Application No. 17/876,492	Applicant(s) LEE et al.	
	Examiner JAMES M DOLAK	Art Unit 3618	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 7/28/2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) 5-12 and 16-30 is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-4 and 13-15 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☑ Claim(s) 1-20 are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 7/28/2022 is/are: a)☐ accepted or b)☑ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☑ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Election/Restrictions

2. During a telephone conversation with Umar R. Bakhsh (Applicant's representative) on 9/23/2022 a provisional election was made without traverse to prosecute the invention of Species (Fig.8A-8H), and claim grouping 1-15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5-8 (and 9-12 depending therefrom), and 16-30 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

3. This application contains claims directed to the following patentably distinct species:

a. Species A — directed to the embodiment of Fig.1-3 (single stroller with seat attachment);

b. Species B — directed to the embodiment of Fig.4 (seat attachment capable of supporting a car seat);

c. Species C — directed to the embodiment of Fig.5 (single stroller attached to an embodiment of the attachment in the form of a tricycle-like riding device);

d. Species D — directed to the embodiment of Fig-6A-6B (accessory attachment for supporting an accessory on a stroller);

e. Species E — directed to the embodiment of Fig.7 (attachment for supporting a seat comprising one wheel);

f. Species F — directed to the embodiment of Fig.8A-8H (stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters);

g. Species G — directed to the embodiment of Fig.9&10 (double seat stroller with two removable seat attachment adapters 84 for first seat and separate upper second seat attachment portion);

h. Species H — directed to the embodiment of Fig.11-13C (stroller with seat attachment housing according to one example embodiment of the disclosure and removable seat attachment adapter removably coupled to the seat attachment housing according to one example embodiment of the disclosure);

i. **Species I - directed to the embodiment of Fig.14A-C (an alternative embodiment of the seat attachment housing according to another example embodiment of the disclosure)**.

4. The species are independent or distinct because each of Species A-I are directed to a various different strollers and/or stroller attachments. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which

the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims appear to be generic.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason(s) apply: the species of patentably distinct inventions require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search strategies or search queries).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct,

applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Information Disclosure Statement

5. The information disclosure statements (IDS) submitted on 7/28/2022 were filed in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

6. Applicant is advised that the M.P.E.P. states the following with respect to large information disclosure statements (such as the one filed 6/29/2018): Although a concise explanation of the relevance of information is not required for English language information, applicants are encouraged to provide a concise explanation of why the English-language information is being submitted. Concise explanations (especially those that point out the relevant pages and lines) are helpful to the Office, particularly where documents are lengthy and complex and applicant is aware of a section that is highly relevant to patentability or where a large number of documents are submitted and applicant is aware that one or more is highly relevant to patentability (M.P.E.P. § 609)

7. Therefore, it is recommended that if any information that has been cited by Applicant in the disclosure statement is known to be material for patentability as defined

by 37 CFR 1.56, Applicant should present a concise statement as to the relevance of that/those particular documents therein cited. The references cited by applicants in the IDS and listed on the numerous 1449s have been made of record.

8. While the statements filed clearly do not comply with the guidelines set forth in MPEP 2004 regarding both the number of references cited and the elimination of clearly irrelevant art and marginally cumulative information, compliance with these guidelines is not mandatory. Furthermore, 37 CFR 1.97 and 1.98 do not require that the information be material, rather they allow for submission of information regardless of its pertinence to the claimed invention. Also, there is no requirement to explain the materiality of the submitted references, however, the cloaking of a clearly relevant reference by inclusion in a long list of citations may not comply with Applicant's duty of disclosure, see Penn Yan Boats, Inc. V. Sea Lark boats Inc., 359 F. Supp. 948, aff'd 479 F. 2d. 1338.

Claim Objections

9. Claim 1 objected to because of the following informalities: the limitation "the wheels" (line 5) should be rewritten as "the front and rear wheels." Appropriate correction is required.

Drawings

10. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "front end portion" (Claim 1) and "pair of spaced apart pivots" (Claim 15) must all be shown and labeled or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended

replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

11. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

> The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

12. Claims 1-4, and 13-15 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Regarding the claims, each claim recites a version of the open-ended clauses "configured to couple" (Claim 1), "configured to

receive" (Claim 1), which renders the claims indefinite, since it's not clear whether the claimed "coupling/receiving" is actually taking place or not. It has been held that the open-ended recitations stating that an element is capable to perform a function (e.g., "configured to", "adapted to", etc.) are not the positive limitations but only require the ability to so perform. They do not constitute a limitation in any patentable sense. See In re Hutchinson, 69 USPQ 138. Just because something is "configured to" do something (i.e. is "capable of" doing something), doesn't actually mean it does it. "[A]pparatus claims cover what a device is, not what a device does." Hewlett-Packard Co. v.Bausch & Lomb Inc., 909 F.2d 1464, 1469, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990) (emphasis in original). The Office hereby notes that "configured to" does not explicitly denote how features(s) are constructed and/or associated with other claimed limitations; whereas the claim is amenable to two or more plausible claim constructions. If a claim is amenable to two or more plausible claim constructions, then the claim may be deemed indefinite. See Ex parte Miyazaki, 89 USPQ2d 1207 (Bd. Pat. App. & Inter. 2008) (precedential). Applicant is required to use definitive and positive statements while reciting the structure and functions of the claimed apparatus (e.g. "a locking arm chamfer [that is configured to engage] --engaging-- the lock pin chamfer"). Appropriate correction is required.

13. Claims 1-4 and 13-15 are further rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. The claims recite the limitations: "substantially within a single plane" (Claim 1) and "substantially over" (Claim 3/4), which

render the claims indefinite, since the term is a relative term. The term "substantially" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Since no tolerances have been defined by the specification or claims, it's impossible to determine what range has been actually claimed, thus rendering the scope of the claim(s) not clearly defined. Appropriate correction is required.

14. Claims 1-4 and 13-15 are further rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. The claims recite the limitations: "without changing its footprint" (Claim 1) which is unclear and therefore render the claims indefinite. The disclosure does not provide further explanation for this limitation. Appropriate correction is required.

15. Claims 1-4 and 13-15 are further rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. The claims recite the limitations: "at least two rear wheels" (Claim 1) which is unclear and therefore render the claims indefinite. The disclosure does not provide further explanation for this limitation, and it is not clear there is support for more than exactly two wheels. Appropriate correction is required

Claim Rejections - 35 USC § 102

16. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

17. **Claims 1-4, and 13-15 are rejected under 35 U.S.C. 102(b/e) as being anticipated by Chen (US PG PUB 2010/0013281 A1)**.

[Claim 1] Regarding Claim 1, Chen discloses: A stroller (See, e.g., Fig. 4-11) convertible from a single seat configuration to a double seat configuration without changing its footprint (See, e.g., Fig. 4-11), comprising:

at least two rear wheels (See, e.g., Fig. 4-11);

only two front wheels (See, e.g., Fig. 4-11);

a frame (See, e.g., Fig. 4-11, 20+30) supported by the wheels (See, e.g., Fig. 4-11) and comprising a handle portion (See, e.g., Fig. 4-11) and left and right foldable support members (See, e.g., Fig. 4-11, 21+34) extending from the handle portion towards a front end portion of the frame (See, e.g., Fig. 4-11), the foldable support members extending in a parallel, spaced relationship and substantially within a single plane (See, e.g., Fig. 4-11) and wherein the plane runs diagonally downwards from the handle portion towards the front end portion of the frame (See, e.g., Fig. 4-11);

a first seat (See, e.g., Fig. 4-11, 50) releasably connected to the stroller frame at a first vertical position (See, e.g., Fig. 4-11), the first seat being connectable to the frame in either a forward or backward facing position (See, e.g., Fig. 4-11) to form the single seat configuration (See, e.g., Fig. 4-11); and

wherein the stroller is configured to receive an optional second seat assembly (See, e.g., Fig. 4-11, 40) to form the double seat configuration, the second seat assembly comprising:

right and left seat attachments (See, e.g., Fig. 4-11, 41) configured to couple to the right and left support members (See, e.g., Fig. 4-11), respectively, at a second vertical position that is lower than the first vertical position (See, e.g., Fig. 4-11); and a second seat (See, e.g., Fig. 4-11, 40) connectable to the right and left seat attachments in either a forward or backward facing position (See, e.g., Fig. 4-11).

[Claim 2] Regarding Claim 2, Chen discloses: wherein the second seat is connectable above the two front wheels (See, e.g., Fig. 4-11).

[Claim 3] Regarding Claim 3, Chen discloses: wherein above the two front wheels is substantially over the two front wheels (See, e.g., Fig. 4-11).

[Claim 4] Regarding Claim 4, Chen discloses: wherein the first seat is connected to the stroller frame substantially over the two rear wheels (See, e.g., Fig. 4-11) so that a center of gravity of the stroller is between the front and rear wheels (See, e.g., Fig. 4-11).

[Claim 13] Regarding Claim 13, Chen discloses: further comprising a folding mechanism (See, e.g., Fig. 4-11, near 22) dividing the left and right foldable members into upper and lower portions (See, e.g., Fig. 4-11), wherein the upper portion of the left

and right foldable members is adjacent the handle portion (See, e.g., Fig. 4-11) and wherein the lower portion of the left and right foldable members is adjacent to the front end portion (See, e.g., Fig. 4-11).

[Claim 14] Regarding Claim 15, wherein the front end portion is coupled to the two front wheels (See, e.g., Fig. 4-11).

[Claim 15] Regarding Claim 15, wherein the folding mechanism includes a pair of spaced apart pivots (See, e.g., Fig. 4-11, near 22) connecting the lower portion to the upper portion of the left and right foldable members (See, e.g., Fig. 4-11).

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure, and can be found on the attached Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES M DOLAK whose telephone number is (571)270-7757. The examiner can normally be reached on 9-530 EST Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J ALLEN SHRIVER can be reached on 303-297-4337. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES M DOLAK/
Primary Examiner, Art Unit 3618.

Applicant-Initiated Interview Summary	**Application No.** 17/876,492	**Applicant(s)** LEE et al.	
	Examiner JAMES M DOLAK	**Art Unit** 3618	**AIA (FITF) Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) JAMES M. DOLAK (Examiner). (3) _____.

(2) Umar R. Bakhsh (Applicant's representative). (4) _____.

Date of Interview: 23 September 2022.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1-20.

Identification of prior art discussed: n/a.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed Oral Election to Restriction Requirement and Applicant's representative elected Species F (Fig.8A-8H) and independent Claim 1-15 grouping without traverse..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/JAMES M DOLAK/ Primary Examiner, Art Unit 3618	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Notice of References Cited	Application/Control No. 17/876,492	Applicant(s)/Patent Under Reexamination LEE et al.	
	Examiner JAMES M DOLAK	Art Unit 3618	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9956979-B1	05-2018	Fernsten; Patrick	B62B9/005	1/1
*	B	US-9944305-B2	04-2018	Lee; Jon Hee	B62B7/006	1/1
*	C	US-9924806-B2	03-2018	Penello; Daniel	B62B9/12	1/1
*	D	US-9884640-B2	02-2018	Li; Jian-Qun	B62B7/08	1/1
*	E	US-9849903-B1	12-2017	Lai; Chin-I	B62B7/142	1/1
*	F	US-9840168-B2	12-2017	Yi; Ze-Hua	B62B7/142	1/1
*	G	US-10207731-B2	02-2019	Taylor; Andrew J.	B62B7/008	1/1
*	H	US-6209892-B1	04-2001	Schaaf; William Chester	B62B7/145	280/47.38
*	I	US-6286844-B1	09-2001	Cone, II; Richard E.	B62B9/28	280/658
*	J	US-7475900-B2	01-2009	Cheng; Huang-Yi	B62B7/08	280/47.38
*	K	US-D593459-S	06-2009	Liao; Gordon		D12/129
*	L	US-11370468-B2	06-2022	Young; David	B62B7/008	1/1
*	M	US-20100013281-A1	01-2010	Chen; Hung-Tsun	B62B9/12	297/243

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 17/876,492	Applicant(s)/Patent Under Reexamination LEE et al.	
	Examiner JAMES M DOLAK	Art Unit 3618	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-4216974-A	08-1980	Kassai; Kenzo	B62B7/062	280/42
*	B	US-4544178-A	10-1985	Al-Sheikh; Abdelraouf M.	B62B7/062	280/658
*	C	US-6102431-A	08-2000	Sutherland; Scott A.	B62B7/062	280/646
*	D	US-6102432-A	08-2000	Cheng; Pao-Hsien	B62B9/203	280/47.36
*	E	US-6991248-B2	01-2006	Valdez; Martin E.	B62B7/08	280/658
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/876,492	LEE et al.
	Examiner	Art Unit
	JAMES M DOLAK	3618

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	09/23/2022								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
	10	N								
	11	N								
	12	N								
	13	✓								
	14	✓								
	15	✓								
	16	N								
	17	N								
	18	N								
	19	N								
	20	N								
	21	N								
	22	N								
	23	N								
	24	N								
	25	N								
	26	N								
	27	N								
	28	N								
	30	N								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/876,492	LEE et al.
	Examiner	Art Unit
	JAMES M DOLAK	3618

CPC - Searched*		
Symbol	Date	Examiner
B62B7/008,00,006,14,142,145	09/23/2022	JMD
B62B9/12,28,102	09/23/2022	JMD

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor & Assignee Search	09/23/2022	JMD
Text search	09/23/2022	JMD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/JAMES M DOLAK/ Primary Examiner.Art Unit 3618	/JAMES M DOLAK/ Primary Examiner, Art Unit 3618

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-07-13
First Named Inventor	Jon Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6286844	B1	2001-09-11	Cone, II et al.	
	2	7475900	B2	2009-01-13	Cheng	
	3	7377537	B2	2008-05-27	Li	
	4	7563170	B2	2009-07-21	Bellows et al.	
	5	9403550	B2	2016-08-02	Zehfuss	
	6	D593459	S	2009-06-02	Liao	
	7	5988670	A	1999-11-23	Song et al.	
	8	6045145	A	2000-04-04	Lan	

 REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JON HEE LEE/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-07-13
First Named Inventor	Jon Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

	9	7938435	B2	2011-05-10	Sousa et al.	
	10	D429476	S	2000-08-15	Gehr	
	11	D430076	S	2000-08-29	Gehr	
	12	6086087	A	2000-07-11	Yang	
	13	5338096	A	1994-08-16	Huang	
	14	5167425	A	1992-12-01	Chen	
	15	11338836	B2	2022-05-24	Perrot	
	16	11292499	B2	2022-04-05	Rolicki et al.	
	17	11220282	B2	2022-01-11	Chaudeurge	
	18	11208136	B2	2021-12-28	Taylor et al.	
	19	11208135	B2	2021-12-28	Haut et al.	

 REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /.../

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-13
	First Named Inventor	Jon Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	20	11203371	B2	2021-12-21	Zhong	
	21	11192568	B2	2021-12-07	Lee et al.	
	22	10556610	B2	2020-02-11	Rolicki et al.	
	23	10449987	B2	2019-10-22	Gibson	
	24	6513827	B1	2003-02-04	Barenbrug	
	25	10899377	B2	2021-01-26	Eggert-Crowe et al.	
	26	8602441	B2	2013-12-10	Li	
	27	6267406	B1	2001-07-31	Huang	
	28	11091186	B2	2021-08-17	Zhang	
	29	8313115	B2	2012-11-20	Cheng	
	30	7971897	B2	2011-07-05	Pike et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date	2022-07-13
First Named Inventor	Jon Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20060290107	A1	2006-12-28	Powers	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	3463874	CN	S	2005-07-27	GOODBABY CHILD PRODUCTS CO LTD		☒
	2	000822556-0003	EU		2007-07-11	ABC Design GmbH		☒
	3	001001572-0002	EU		2008-11-09	Unique Product and design Co., Ltd.		☒
	4	129880-0001	TW		2009-07-21	UNIQUE PRODUCT & DESIGN CO LTD		☒
	5	2188062	CN	Y	1995-01-25	HUANG MINGCHENG		☐
	6	2759883	CN	Y	2006-02-22	ZHENG HUANGYI		☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2022-07-13
	First Named Inventor	Jon Hee Lee
	Art Unit	
	Examiner Name	
	Attorney Docket Number	34757-2680

	7	2784272	CN	Y	2006-05-31	SHEN HAIDONG		☐
	8	2841450	CN	Y	2006-11-29	GU JINGDE		☒
	9	101306695	CN	B	2010-11-10	LI ZEJUN		☒
	10	201214440	CN	Y	2009-04-01	LIU FENG		☒

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/JAMES M DOLAK/	Date Considered	09/23/2022

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2022-07-13
First Named Inventor	Jon Hee Lee
Art Unit	
Examiner Name	
Attorney Docket Number	34757-2680

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Umar R. Bakhsh/	Date (YYYY-MM-DD)	2022-07-28
Name/Print	Umar R. Bakhsh	Registration Number	67307

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Bibliographic Data

Application No: 17/876,492

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JAMES M DOLAK/ Examiner's Signature | Initials

Title: REMOVABLE SEAT ATTACHMENT FOR A STROLLER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/28/2022	280	3618	34757-2680
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 16903292 06/16/2020

16903292 is a CON of 15912901 03/06/2018 PAT 10730543

15912901 is a CON of 15225326 08/01/2016 PAT 9944305

15225326 has PRO of 62311224 03/21/2016

15225326 is a CIP of 14597420 01/15/2015 PAT 9403550

14597420 is a CON of 14261558 04/25/2014 PAT 8955869

14261558 is a CON of 12631375 12/04/2009ABN

12631375 has PRO of 61119920 12/04/2008

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/09/2022

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L90	37602504	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:09 PM
L91	1876	L89 and L90	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:09 PM
L92	2544	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/16 03:11 PM
L93	1082	L92 and L90	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:11 PM
L94	51	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 03:10 PM

		US-20030075903-$ or US-20100140902-$ or US-20080303232-$ or US-20070085303-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$).did. or (US-3000645-$ or US-2453631-$).did.					
L95	26	("20060131841"|"20070069505"|"20070210560"|"20080012268"|"20080224450"|"20080224451"|"20090160162"|"20100171289"|"20100201103"|"5947555"|"6045145"|"6270111"|"6331032"|"6715783"|"7032922"|"7367581"|"7475900"|"7677585"|"7753398"|"77	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 03:16 PM

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L102	1	("6168174").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:04 PM
L103	1	("6209892").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:04 PM
L104	1	("6296260").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:18 PM
L105	1	("6203053").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:19 PM
L106	1	("4681330").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:20 PM
L107	1	("5685552").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:21 PM
L108	1	("5984326").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:21 PM
L109	1	("6168174").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:22 PM
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			USOCR)				01:22 PM
L111	6	("5653460" | "6045145" | "6378892").PN. OR ("7320471").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:25 PM
L112	23	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:26 PM
L113	53	("20030192925" | "20050072821" | "2907372" | "3079162" | "3248125" | "3627342" | "3961803" | "3967833" | "4032173" | "4113306" | "4181356" | "4220351" | "4231587" | "4239259" | "4256325" | "4412688" | "4620711" | "4681340" | "4762256" | "4844504" | "4892327" | "5230523" | "5333769" | "5398951" | "5411729" | "5431478" | "5468009" | "5478096" | "5662339" | "5806924" | "5829826" | "5964470" | "5987665" | "6045145" | "6231056" | "6250654" | "6375213" | "6811178" | "6910696" | "D254610" | "D345720" | "D358058" | "D365925" | "D402235" | "D508443").PN. OR ("7497461").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 04:08 PM
L114	22	("3738600" | "3876046" | "4570956" | "4750783" | "5188389" | "5234224" | "5499831" | "5536027" | "5562300" | "5876046" | "6189914" | "6193263" | "6209892" | "6290290" | "6302412" | "6398233" | "6550802" | "D397316" | "D481975" | "D486427" | "D497844").PN. OR ("D508443").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 04:13 PM
L115	26	("4790548" | "5060967" | "5366274" | "5727848" | "5975225" | "6203054" | "6513827" | "7234722").PN. OR ("7367581").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 06:30 PM
L116	23	("4657269" | "4836573" | "5184835" | "5338096"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 06:39 PM

		| "5664795" | "5911432").PN. OR ("6045145").URPN.					
L117	55	("4736959" | "4743063" | "4872692" | "4878680" | "5201535" | "5676386").PN. OR ("5947555").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 10:09 AM
L118	25	("20010040357" | "20020093177" | "20030075903" | "4921261" | "4989888" | "5676386" | "5794951" | "5947555" | "6189914" | "6209892" | "6241274" | "6286844" | "6302412" | "6331032" | "6398233" | "6409205" | "6641164" | "6702316").PN. OR ("6923467").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 11:03 AM
L119	25	("4570956" | "4836573" | "4921261" | "4946180" | "5121940" | "5188380" | "5676386" | "5772279" | "5947555" | "6070890" | "6155592" | "6286844" | "6398233" | "6409205" | "6478327" | "D345720").PN. OR ("6641164").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 11:28 AM
L120	2	("3000645").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:26 PM
L121	9	("3000645").URPN.	(USPAT)	OR	ON	ON	2013/07/25 03:27 PM
L122	29	("0122730" | "0937625" | "1212221" | "20070114738" | "2836224" | "3000645" | "4288124" | "4779883" | "4805938" | "4863217" | "5312122" | "5622375" | "5653460" | "5704627" | "5848797" | "6378892" | "6530591" | "6746079" | "6851693" | "7226059" | "7481439" | "7597332" | "7677585").PN. OR ("8128103").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:29 PM
L123	1	("8029007").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2013/07/25 03:30 PM
L124	28	("20010033069" | "20020135142" | "20030025304" | "20030127835" | "20040164510" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:31 PM

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L125	1	("6851693").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:34 PM
L126	14	("3887208" | "5064209" | "5067738" | "5269548" | "5421597" | "5470088" | "5513868" | "5785335").PN. OR ("6851693").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:35 PM
L127	6	("2001/0033069").URPN.	(USPAT)	OR	ON	ON	2013/07/25 03:36 PM
L128	28	("1876963" | "20010033069" | "20020089136" | "20040075230" | "20040173989" | "20060261575" | "20100201089" | "2859975" | "3069182" | "4190261" | "4239248" | "4323258" | "4336952" | "4359231" | "5624128" | "5931244" | "6203053" | "6485039" | "6517092" | "6572130" | "6626446" | "7073822" | "7377527" | "7549655" | "7699325").PN. OR ("8146926").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:37 PM
L129	1	("7249779").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:38 PM
L130	57	("1218943" | "1347384" | "1408729" | "1560288" | "20010035626" | "20030151225" | "2305719" | "2435733" | "2468933" | "2798727" | "3314494" | "3738700" | "3954283" | "4015297" | "4825484" | "4958842" | "5125674" | "5190306" | "5558357" | "5562300" | "5590896" | "5692760" | "5709400" | "5820146" | "5884922" | "5975551" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:38 PM

		"6164666" | "6231056" | "6237995" | "6340168" | "6409190" | "6460866" | "6595536" | "6601862" | "6623023" | "6676140" | "6688614" | "7029015").PN. OR ("7249779").URPN.					
L131	60	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 04:59 PM

		8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$).did. or (US-3000645-$ or US-2453631-$).did.					
L132	7295614	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L133	2588	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L134	3082	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L135	1082	L132 and L133	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:39 PM
L136	1877	L132 and L134	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:39 PM
L137	5616	L133 or L134	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L138	2924	L132 and L137	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L139	1012	L138 and stroller	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L140	901	L139 and seat$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L141	757	L140 and (insert$4 or attach$4 or detach$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:42 PM
L142	107	L141 and ((double or tandem) same stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:42 PM
L143	1	("5816367").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 09:23 AM
L144	3	("2006/0290107").URPN.	(USPAT)	OR	ON	ON	2014/01/30 02:24 PM
L145	78	("20030020259" | "20030227157" | "20060290107" | "20070001429" | "20070085303" | "20070222167" | "20070296182" | "20080073877" | "20080150247" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 02:26 PM

		"20090039620" | "20100038886" | "20100038887" | "20100072732" | "20100078916" | "20100109292" | "20100140902" | "20100282800" | "20120153583" | "2769482" | "2798733" | "2857953" | "2993702" | "3235279" | "3309101" | "4542915" | "4725071" | "4858947" | "5018754" | "5167425" | "5184835" | "5263730" | "5333893" | "5338096" | "5417449" | "5653460" | "5664795" | "5722682" | "5911432" | "6045145" | "6086087" | "6209892" | "6267406" | "6378892" | "6497424" | "6585284" | "6676140" | "6702316" | "6843498" | "6877761" | "6935652" | "6979017" | "7320471" | "7451999" | "7938433" | "8070179" | "8157273" | "8186705" | "8205894" | "D311363" | "D321850" | "D328047" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D455679" | "D587635" | "D614540" | "D616337" | "D616338" | "D636300").PN. OR ("8371606").URPN.					
L146	8	("2010/0078916").URPN.	(USPAT)	OR	ON	ON	2014/01/30 02:27 PM
L147	8	("20070096438" | "20100025968" | "20100078916" | "6422586" | "7401803" | "7441794" | "7632035" | "7766366").PN. OR ("8596669").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 02:27 PM
L148	1	("8157273").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:20 PM
L149	18	("0522608" | "1707186" | "3223431" | "3524655" | "3997180" | "4620686" | "4632409" | "4836573" | "6267406" | "6752405" | "7364183").PN. OR	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:21 PM

		("8157273").URPN.					
L150	1	("5338096").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:23 PM
L151	19	("3223431" | "3915493" | "3917312" | "4886209" | "5184835").PN. OR ("5338096").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:24 PM
L152	23	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 05:17 PM
L153	53	("20030192925" | "20050072821" | "2907372" | "3079162" | "3248125" | "3627342" | "3961803" | "3967833" | "4032173" | "4113306" | "4181356" | "4220351" | "4231587" | "4239259" | "4256325" | "4412688" | "4620711" | "4681340" | "4762256" | "4844504" | "4892327" | "5230523" | "5333769" | "5398951" | "5411729" | "5431478" | "5468009" | "5478096" | "5662339" | "5806924" | "5829826" | "5964470" | "5987665" | "6045145" | "6231056" | "6250654" | "6375213" | "6811178" | "6910696" | "D254610" | "D345720" | "D358058" | "D365925" | "D402235" | "D508443").PN. OR ("7497461").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 05:56 PM
L154	6	("5653460" | "6045145" | "6378892").PN. OR ("7320471").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 06:00 PM
L155	23	("20010013689" | "20040032103" | "20040094923" | "20070057486" | "20080012268" | "20080231022" | "20090127827" | "20090243260" | "20090295128" | "4398748" | "4836573" | "6446990" | "6478327" | "6572134" | "7497461" | "7513512" | "7658399" | "7686322" | "7712765" | "7775532" | "7832755" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 10:54 AM

		"7878527" | "7938435").PN. OR ("8231136").URPN.					
L156	2	("2008/0231022").URPN.	(USPAT)	OR	ON	ON	2014/01/31 12:58 PM
L157	14	("20040094923" | "20070057486" | "20080012268" | "20080231022" | "20090127827" | "20090243261" | "20120098219" | "4398748" | "4836573" | "6446990" | "6478321" | "6478327" | "6572134" | "7712765").PN. OR ("8458880").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 12:59 PM
L158	1	("7938435").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 01:26 PM
L159	34	("4157839" | "5558357" | "5676386" | "5772279" | "5794951" | "5863061" | "5865447" | "5876046" | "5947555" | "6241274" | "6286844" | "6331032" | "6409205" | "6428034" | "6478327" | "6533309" | "6666473" | "6893040" | "7032922" | "7267359" | "7377537" | "7431395" | "7475900" | "7681894" | "7766366").PN. OR ("7938435").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 12:41 PM
L160	17	("20050098983" | "2842374" | "6357784" | "7118121" | "7267359" | "7367581" | "7441794" | "7527283").PN. OR ("7766366").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 12:56 PM
L161	105	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064" | "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 01:14 PM

		| "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.					
L162	52	("3779655" | "4191397" | "4216974" | "4412688" | "4602889" | "4634177" | "4645371" | "4834403" | "5028061" | "5257799" | "5527096" | "5772279" | "5865447" | "6286844").PN. OR ("6513827").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 01:21 PM
L168	1	("20140217706").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:03 AM
L169	3175	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:24 AM
L170	7324421	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:24 AM
L171	1878	L169 and L170	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:25 AM
L172	64	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:25 AM

		8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$).did. or (US-3000645-$ or US-2453631-$).did.					
L173	3686032	@pd>="20140129"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:56 AM
L174	1	L171 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:56 AM
L175	13	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:57 AM
L176	1	("7,497,461").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:01 AM
L177	94	L169 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 11:08 AM
L178	12	("20070296182" | "20100117315" | "5820144" | "6086086" | "6513827" | "6715783" | "7032922" | "7066542" | "7364183" | "7377537" | "7455362" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:25 AM

		"8061732").PN. OR ("8764048").URPN.					
L179	15	("3797848" | "4832361" | "5074575" | "6116624" | "6446990" | "6508605" | "6530591" | "6824161" | "6830254" | "6851700" | "6951342" | "7021650" | "7273225" | "7401803" | "7513512").PN. OR ("8696016").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:41 AM
L180	1	("7,938,435").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:47 AM
L181	1	("20080231022").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:47 AM
L182	2	("2008/0231022").URPN.	(USPAT)	OR	ON	ON	2014/09/24 11:48 AM
L183	1	("7,766,366").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:51 AM
L184	1	("6,286,844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:52 AM
L185	1	("6,513,827").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:53 AM
L186	0	(2006/0131841).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:53 AM
L187	1	("20060131841").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:54 AM
L188	1	("20060001226").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:54 AM
L189	1	("7,320,471").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L190	1	("6,045,145").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L191	1	("20080224451").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L192	1	("7,481,439").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:57 AM
L193	1	("7,367,581").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:57 AM
L194	1	("8,029,007").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:58 AM
L195	1	("6,923,467").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:58 AM
L196	1	("20070090619").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:58 AM
L197	1	("6,851,693").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:59 AM
L198	1	("20010033069").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 12:00 PM
L199	1	("7,249,779").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:00 PM

L200	57	("1218943" | "1347384" | "1408729" | "1560288" | "20010035626" | "20030151225" | "2305719" | "2435733" | "2468933" | "2798727" | "3314494" | "3738700" | "3954283" | "4015297" | "4825484" | "4958842" | "5125674" | "5190306" | "5558357" | "5562300" | "5590896" | "5692760" | "5709400" | "5820146" | "5884922" | "5975551" | "6164666" | "6231056" | "6237995" | "6340168" | "6409190" | "6460866" | "6595536" | "6601862" | "6623023" | "6676140" | "6688614" | "7029015").PN. OR ("7249779").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:02 PM
L201	2665	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:02 PM
L202	79	L201 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 12:03 PM
L203	2	L202 and L170	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:03 PM
L204	1	("5338096").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:24 PM
L205	1	("20030025304").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:25 PM
L206	1	("20070001429").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:25 PM
L207	1	("20070085303").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:26 PM
L208	1	("20070114738").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 01:26 PM
L209	1	("7681894").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:33 PM
L210	14	("20040164593" | "3145442" | "5865447" | "5947555" | "6446314" | "7032922").PN. OR ("7681894").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:33 PM
L211	1	("7377537").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:34 PM
L212	41	("7249779"|"3000645"|"7677585"|"7377537"|"20060001226"|"8029007"|"20080231022"|"7766366"|"6443467"|"6561526"|"20080224451"|"65	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:56 PM

		13827"|"7475900"|"7497461"|"20070114738"|"1707186"|"6752405"|"6851693"|"7938435"|"6676140"|"6045145"|"6923467"|"20030025304"|"20070001429"|"5338096"|"6045145"|"20070090619"|"6209892"|"6378892"|"7896384"|"8157273"|"8251382"|"8262103"|"8336904"|"20010033069"|"20060131841"|"7320471"|"7367581"|"7481439"|"6286844").PN.					
L219	19	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2015/04/20 01:53 PM
L220	22	("7249779"|"20060001226"|"20080231022"|"7766366"|"8029007"|"20080224451"|"6513827"|"4797461"|"7497461"|"6851693"|"7938435"|"6045145"|"6923467"|"8905427"|"20070090619"|"20010033069"|"20060131841"|"6286844"|"7320471"|"7367581"|"7481439"|"8882134").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 01:58 PM
L221	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:02 PM
L222	68470442	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:02 PM
L223	1214191	@pd>="20140924"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:03 PM
L224	3292	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM
L225	2741	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM
L226	5977	L224 or L225	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:04 PM
L227	2929	L226 and L222	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:04 PM
L228	2	L227 and L223	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:04 PM
L229	88	("0119331" | "1138802" | "1269379" | "1707186"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM

		| "1890469" | "20040251063" | "20070045975" | "20090115151" | "20090160162" | "20100038887" | "20100140902" | "20110175330" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" | "4391453" | "4403807" | "4684148" | "4725071" | "4805938" | "4834415" | "4834452" | "4858947" | "4872692" | "4969656" | "5018754" | "5033761" | "5064209" | "5167425" | "5221106" | "5230523" | "5338096" | "5653460" | "5664795" | "5772235" | "5887935" | "5918892" | "6086087" | "6099022" | "6267406" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" | "6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "7367581" | "7516966" | "7597332" | "7896384" | "8128103" | "8157273" | "8398143" | "D296540" | "D300310" | "D305316" | "D321850" | "D328047" | "D348489" | "D360392" | "D370437" | "D382516" | "D404344" | "D430512" | "D431212" | "D452191" | "D568794" | "D593458" | "D595621" | "D598333").PN. OR ("8905427").URPN.					
L230	84	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:08 PM
L231	796	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L232	666	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L233	894	(B62B7/142).CPC.	(US-PGPUB; USPAT;	OR	ON	ON	2015/04/20

			USOCR; FPRS; EPO; JPO)				02:12 PM
L234	1003	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L235	450	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L236	3236	L230 L231 L232 L233 L234 L235	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L237	2104	L236 and L222	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:13 PM
L238	70	L237 and (seat$3 same revers$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:14 PM
L239	77	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070069505-$ or US-20080231022-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:14 PM

		5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$ or US-8764048-$ or US-8061732-$).did. or (US-8733784-$ or US-8696016-$ or US-8231136-$ or US-8458880-$ or US-7249779-$ or US-7681894-$ or US-8955869-$ or US-8905427-$).did. or (US-3000645-$ or US-2453631-$).did.					
L240	58	L238 not L239	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:14 PM
L241	1	("8882134").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:15 PM
L242	87	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:16 PM

		"20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L243	1	("6361111").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:19 PM
L244	1	("20040251063").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:19 PM
L245	1	("6527294").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:20 PM
L246	1	("20070045975").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:20 PM
L247	27	("20060001226" | "20070045975" | "20080296872" | "20090033066" | "5301970" | "5520433" | "5601302" | "5709400" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:30 PM

		"5845924" | "6099022" | "6193263" | "6203054" | "6209892" | "6398233" | "6446990" | "6540250" | "6715783" | "7377537" | "7475900" | "7753398").PN. OR ("8029014").URPN.					
L249	2790	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 10:16 AM
L250	3337	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 10:16 AM
L251	102	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L252	824	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L253	686	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L254	947	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L255	1031	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L256	520	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L257	3385	L251 L252 L253 L254 L255 L256	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L258	1888686	@pd>="20150420"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L259	6070	L249 or L250	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L260	49	L258 and L249	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L261	93	L258 and L259	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L262	45	L258 and L250	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L263	44	L262 not L260	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:18 AM
L264	105	L258 and L257	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2015/12/07 10:19 AM

			JPO)				
L265	94	L264 not L263	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:19 AM
L266	93	L265 not L260	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:19 AM
L267	1	("8936261").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 12:33 PM
L268	64	("20040164593" | "20060261565" | "20070045975" | "20070069505" | "20070187914" | "20080054579" | "20080150247" | "20080179848" | "20080303232" | "20090033066" | "20090102162" | "20090256323" | "20100013281" | "20100102535" | "20100127480" | "20100230933" | "20100244408" | "20100259021" | "20110204600" | "20110291389" | "20110304124" | "20120025492" | "20120153583" | "20120242062" | "20120261961" | "20130113188" | "4872692" | "5018405" | "5676386" | "5722682" | "5947555" | "6513827" | "6530591" | "6581957" | "6851700" | "7032922" | "7267359" | "7377537" | "7401803" | "7681894" | "7686323" | "7753397" | "7753398" | "7789402" | "7798500" | "7938435" | "8029014" | "8033555" | "8157286" | "8205906" | "8240700" | "8251382" | "8322744" | "8366127" | "8454049" | "8465045" | "8469388" | "8474854" | "8480116" | "8485546" | "8544873" | "8550489" | "8596669").PN. OR ("8936261").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/12/07 12:33 PM
L269	18	("1671774" | "1707186"	(US-PGPUB; USPAT;	OR	OFF	OFF	2015/12/07

		| "20050167951" | "20070194545" | "20100052277" | "20110163519" | "20120118516" | "7032922" | "7871100" | "8157273" | "8251382" | "8585075" | "8651502" | "8727370" | "D686541").PN. OR ("9010773").URPN.	USOCR)				01:12 PM
L270	1	("6,286,844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 06:14 PM
L271	110	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L272	855	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L273	694	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L274	989	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L275	1052	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L276	540	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L277	3473	L271 L272 L273 L274 L275 L276	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L278	3353	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 12:46 PM
L279	2802	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 12:46 PM
L280	279114	@pd>="20151207"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:47 PM
L281	21	L277 and L280	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L282	16	L278 and L280	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L283	12	L279 and L280	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L284	17	L281 not (L282 or L283)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM

L285	2	("20070069504" | "7401803").PN. OR ("9242665").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 01:16 PM
L286	70	("20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" | "20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756" | "4542915" | "4725071" | "5338096" | "5417449" | "5664795" | "6086087" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" | "8480115" | "8684395" | "8714582" | "8757646" | "8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "D321850" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D636300").PN. OR ("9227650").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 01:18 PM
L287	1	("7475900").PN.	(US-PGPUB; USPAT;	OR	ON	ON	2016/02/12

			USOCR)				01:19 PM
L288	1	("4343124").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:17 PM
L289	1	("4340124").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:18 PM
L290	1	("20140361517").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:50 PM
L291	111	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L292	864	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L293	699	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L294	993	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L295	1054	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L296	542	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L297	3486	L291 L292 L293 L294 L295 L296	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L298	3358	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 04:45 PM
L299	2805	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 04:45 PM
L300	6106	L298 or L299	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:45 PM
L301	83034	@pd>="20160212"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:45 PM
L302	8	L300 and L301	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:59 PM
L303	6	L297 and L301	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 05:01 PM
L304	13	("20080231022" | "20090243261" | "20130113188" | "6513827" | "7267359" | "7377537" | "7798500" | "7938435" | "8061732" | "8733784" | "8764048" | "8777253" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:03 PM

		"8955869").PN. OR ("9260128").URPN.					
L305	94	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "20140191483" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:04 PM

		"8276935" | "8882134" | "9056622" | "D326748" | "D431798").PN. OR ("9260127").URPN.					
L306	1	("20150123440").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:20 PM
L307	1	("8955869").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:22 PM
L308	32	("20010033069" | "20060001226" | "20060131841" | "20070090619" | "20080224451" | "20080231022" | "6045145" | "6286844" | "6513827" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7475900" | "7481439" | "7497461" | "7681894" | "7766366" | "7938435" | "8029007" | "8033554" | "8061732" | "8231136" | "8444171" | "8458880" | "8696016" | "8733784" | "8764048").PN. OR ("8955869").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:22 PM
L309	2	"39773911".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:27 PM
L310	32	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:33 PM
L311	28	("1203729" | "1321009" | "20020036391" | "20050023783" | "20070075525" | "20070216138" | "20070222167" | "20090315300" | "20100072732" | "2769482" | "4923208" | "5338096" | "5417449" | "5664795" | "5722682" | "5740989" | "5887935" | "6045145" | "6378892" | "6676140" | "7011318" | "7445229" | "8282119" | "D587635" | "D614540").PN. OR ("8857830").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:37 PM
L312	15	"37454081".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:37 PM

L313	1	"41399621".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:41 PM
L314	6	("2009/0302578").URPN.	(USPAT)	OR	ON	ON	2016/03/25 05:42 PM
L315	70	("20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" | "20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756" | "4542915" | "4725071" | "5338096" | "5417449" | "5664795" | "6086087" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" | "8480115" | "8684395" | "8714582" | "8757646" | "8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "D321850" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D636300").PN. OR ("9227650").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:43 PM

L316	108	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20090243261-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:54 PM

		8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$ or US-8764048-$ or US-8061732-$).did. or (US-8733784-$ or US-8696016-$ or US-8231136-$ or US-8458880-$ or US-7249779-$ or US-7311323-$ or US-8444171-$ or US-8033554-$ or US-7681894-$ or US-8955869-$ or US-8905427-$ or US-8882134-$ or US-8029014-$ or US-7789402-$ or US-7658399-$ or US-5167425-$ or US-8936261-$ or US-9010773-$ or US-9119483-$ or US-9200746-$ or US-9199659-$ or US-9108659-$ or US-9073563-$ or US-9242665-$ or US-7401803-$ or US-9227650-$ or US-9260128-$).did. or (US-9260127-$ or US-8857830-$ or US-2769482-$).did. or (US-3000645-$ or US-2453631-$).did.					
L317	1	("20090290107").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:56 PM
L318	1	("20060290107").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:58 PM
L319	1	("4542915").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 06:07 PM
L320	2	"47750100".FMID.	(US-PGPUB; USPAT;	OR	ON	ON	2016/03/25

			FPRS)				09:54 PM
L321	1	("6209892").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 11:02 PM
L322	60	("3829113" | "4729572" | "4768795" | "4861105" | "5056865" | "5076599" | "5146656" | "5322343" | "5676386" | "5727798" | "5820144" | "5887889").PN. OR ("6209892").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 11:02 PM
L323	60	("3829113" | "4729572" | "4768795" | "4861105" | "5056865" | "5076599" | "5146656" | "5322343" | "5676386" | "5727798" | "5820144" | "5887889").PN. OR ("6209892").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/28 11:14 AM
L324	0	(A stroller, comprising a stroller frame a plurality of wheels, including front and rear wheels a first seat coupled to the stroller frame at a first vertical position closer to a handle of the stroller frame and configured to hold a first child in the stroller a second seat attachment coupled to the stroller frame at a second vertical position substantially below the first vertical position and closer to the front wheels and comprising a left seat support element, wherein the left seat support element comprises a first connector portion releasably connected to the stroller frame closer to left front wheel and a left seat connector releasably connecting a second seat in either a forward or backward position and a right seat support element, wherein the right seat support element comprises a second connector portion releasably connected to	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:20 PM

		the stroller frame closer to a right front wheel and a right seat connector releasably connecting the second seat in either a forward or backward position between the left and right seat support connectors and the second seat releasably connected to the left seat connector and the right seat connector and configured to hold a second child in the stroller while the first seat holds the first child).clm.					
L325	0	(stroller frame wheel seat first vertical position handle child attach$4 coupl$3 left seat support element, first connector portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:42 PM
L326	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left seat support element, first connector portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:42 PM
L327	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support element portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM
L328	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support element portion releas$4 connect$4 forward backward).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM
L329	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM

		releas$4 connect$4 forward backward).clm.					
L330	3	(stroller frame wheel seat vertical position handle attach$4 left support$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:44 PM
L331	14	(stroller frame wheel seat vertical position handle attach$4 support$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:45 PM
L332	15	(stroller frame wheel seat vertical position handle attach$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:46 PM
L333	1	L332 not L331	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:46 PM
L334	18	(stroller frame wheel seat vertical position handle attach$4 releas$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:47 PM
L335	3	L334 not L332	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:47 PM
L336	25	(stroller frame wheel seat vertical position$4 attach$4 releas$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:48 PM
L337	7	L336 not L334	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:48 PM
L338	1	"41399621".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/28 01:48 PM
L339	1	("20160339940").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/08 04:58 PM
L340	3453	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:22 PM
L341	2353	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:23 PM
L342	5184262	@pd>="20160325"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:31 PM
L343	5004	L340 or L341	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:33 PM
L344	254	L342 and L343	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:33 PM
L346	4	(Lee near2 (Jon and	(US-PGPUB; USPAT;	OR	ON	ON	2017/06/08

		Hee)).in.	USOCR; FPRS; EPO; JPO; DERWENT)				05:52 PM
L347	14	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2017/06/12 08:15 AM
L348	1	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2017/06/12 08:16 AM
L349	66	("1707186"|"20010033069"|"20060001226"|"20060131841"|"20060290107"|"20070090619"|"20080224451"|"20080231022"|"20090302578"|"3000645"|"4542915"|"5338096"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7896384"|"7938435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:35 AM
L350	111	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:36 AM

		US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20090243261-$ or US-20130049331-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-					

		6513827-$ or US-8764048-$ or US-8061732-$).did. or (US-8733784-$ or US-8696016-$ or US-8231136-$ or US-8458880-$ or US-7249779-$ or US-7311323-$ or US-8444171-$ or US-8033554-$ or US-7681894-$ or US-8955869-$ or US-8905427-$ or US-8882134-$ or US-8029014-$ or US-7789402-$ or US-7658399-$ or US-5167425-$ or US-8936261-$ or US-9010773-$ or US-9119483-$ or US-9200746-$ or US-9199659-$ or US-9108659-$ or US-9073563-$ or US-9242665-$ or US-7401803-$ or US-9227650-$ or US-9260128-$).did. or (US-9260127-$ or US-8857830-$ or US-2769482-$ or US-4542915-$ or US-6715783-$).did. or (US-3000645-$ or US-2453631-$).did.					
L351	4	L349 not L350	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:41 AM
L352	34	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:44 AM
L353	96	("1269379" | "1707186" | "1890469" | "20020158444" | "20040251063" | "20070045975" | "20080122200" | "20080224451" | "20090115151" | "20090160162" | "20090289440" | "20100038887" | "20100140902" | "20110175330" | "20140265258" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:46 AM

		"3053493" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" | "4391453" | "4403807" | "4684148" | "4725071" | "4805938" | "4834415" | "4834452" | "4858947" | "4872692" | "4969656" | "5018754" | "5033761" | "5064209" | "5167425" | "5221106" | "5230523" | "5338096" | "5522121" | "5653460" | "5664795" | "5772235" | "5887935" | "5918892" | "6086087" | "6099022" | "6267406" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" | "6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "7367581" | "7516966" | "7597332" | "7896384" | "8128103" | "8157273" | "8220822" | "8282120" | "8297642" | "8398143" | "8905427" | "D296540" | "D300310" | "D305316" | "D321850" | "D328047" | "D348489" | "D360392" | "D370437" | "D382516" | "D404344" | "D430512" | "D431212" | "D452191" | "D568794" | "D593458" | "D595621" | "D598333").PN. OR ("9517787").URPN.					
L354	8	"48223173".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/06/12 09:47 AM
L355	10	("2013/0113185").URPN.	(USPAT)	OR	ON	ON	2017/06/12 09:48 AM
L356	36	("1486118" | "2769482" | "2993702" | "3253860" | "3497234" | "3612603" | "4155588" | "4181356" | "4288124" | "4381870" | "4596405" | "4632409" | "4711489" | "4813742" | "4946180" | "5161811" | "5201535" | "5213360" | "5374073" | "5401076" | "5547205" | "5848797"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:52 AM

		| "5988657" | "6135479" | "6276709" | "D340140").PN. OR ("6561526").URPN.					
L357	22	("1707186").URPN.	(USPAT)	OR	ON	ON	2017/06/12 09:53 AM
L358	0	L350 and (cover$4 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:56 AM
L359	0	L350 and (cover$4 same2 door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:00 AM
L360	17	L350 and (cover$4 same attach$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:00 AM
L361	1	("7377537").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:08 AM
L362	56	("4836573" | "4892327" | "5028061" | "5069474" | "5257799" | "5460430" | "5887935" | "5921574" | "6099022" | "6523853" | "6594840" | "6739649" | "7281732").PN. OR ("7377537").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:08 AM
L363	3	L349 and door	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:13 AM
L364	1	("9517787").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:19 AM
L365	1	("9517789").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:20 AM
L366	1	("9561817").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:20 AM
L367	1	("9493179").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:21 AM
L368	3453	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L369	2353	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L370	5004	L368 or L369	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L371	23	L370 and (cover$4 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L372	5	L370 and (cavit$3 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:23 AM
L373	35	("2917316" | "2993702"	(US-PGPUB; USPAT;	OR	ON	ON	2017/06/12

		| "3110504" | "3248125" | "3309101" | "5579556" | "5622375" | "5664795" | "5725238" | "6086087" | "6276759" | "6312005" | "D319493" | "D444738" | "D450265").PN. OR ("6447001").URPN.	USOCR)				10:23 AM
L374	40	L370 and (cavit$3 same cover$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:24 AM
L375	1	("5522121").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:28 AM
L376	25	("0461069" | "1318850" | "1352647" | "1688148" | "1707186" | "4805938").PN. OR ("5522121").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:29 AM
L377	1	("6449801").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:29 AM
L378	1	("20070114738").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:30 AM
L379	2	"38052732".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/06/12 10:30 AM
L380	41	("20010033069" | "20020135142" | "20030025304" | "20030127835" | "20040164510" | "20070090619" | "5463853" | "5622375" | "5625923" | "5725238" | "5882022" | "5909887" | "5967190" | "6098492" | "6422634" | "6447001" | "6453921" | "6530591" | "6540238" | "6557878" | "6698772" | "6827356" | "6893028" | "7159829" | "7290776").PN. OR ("8029007").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:30 AM
L381	13	("20040164510" | "20070090619" | "20120098237" | "20130234419" | "20130264787" | "20160001805" | "3061328" | "5622375" | "6422634" | "6530591" | "7004272" | "8029007").PN. OR ("9545941").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:31 AM
L382	91	("1239498" | "1322788" | "1418929" | "1832770"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:33 AM

		| "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L383	42	("0522608" | "1707186" | "3223431" | "3524655" | "3997180" | "4620686" | "4632409" | "4836573"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:46 AM

		| "6267406" | "6752405" | "7364183").PN. OR ("8157273").URPN.					
L384	15	("20050242548" | "20070052271" | "4518139" | "4681340" | "6022077" | "6536842").PN. OR ("7364183").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:49 AM
L385	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:09 PM
L386	119	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064" | "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577" | "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:13 PM
L387	91	("0706448" | "1480451" | "1508500" | "1952467" | "20010013689" | "20040212161" | "20060085953" | "20070085302" | "20070120404" | "20090029784" | "20090181780" | "20110278810" | "20120023662" | "20120060326" | "20120235450" | "20130334781" | "20140042729" | "20150008659" | "20150042056" | "20150042076" | "20150175189" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:16 PM

		"2708585" | "2961248" | "3564626" | "4476649" | "5099528" | "5201535" | "5562548" | "5676386" | "5772279" | "5846136" | "5947555" | "5987665" | "5988670" | "6250654" | "6286844" | "6471597" | "6671926" | "6872146" | "6893040" | "7037205" | "7100724" | "7354352" | "7377537" | "7445559" | "7475942" | "7497461" | "7607734" | "7681894" | "7686323" | "7694996" | "7766366" | "7905791" | "7938435" | "8029014" | "8251382" | "8292750" | "8550556" | "8672341" | "8746794" | "8851505" | "8944927" | "8955869" | "9085312" | "D156930" | "D371094" | "D377466" | "D408768" | "D442895" | "D452195" | "D475951" | "D481976" | "D498713" | "D498714" | "D519063" | "D604055" | "D622640" | "D623429" | "D667229" | "D682562" | "D684789" | "D687352" | "D743304").PN. OR ("9421992").URPN.					
L388	20	("20010040357" | "20080106070" | "20100127480" | "20110181026" | "20160144879" | "5257799" | "5645293" | "6102432" | "6312005" | "7281732" | "7641216" | "8141895" | "8240698" | "8585075" | "8696015" | "8696016" | "8998241" | "9050993" | "9421991" | "9540028").PN. OR ("9637155").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:16 PM
L389	9	("20120326474" | "4306749" | "4634177" | "4915446" | "5947556" | "6286844" | "6595583" | "8251382" | "8678498").PN. OR ("9346378").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:21 PM
L390	9	("20120326474" |	(US-PGPUB; USPAT;	OR	ON	ON	2017/06/12

		"4306749" | "4634177" | "4915446" | "5947556" | "6286844" | "6595583" | "8251382" | "8678498").PN. OR ("9346378").URPN.	USOCR)				12:54 PM
L391	28	("20030015895" | "20090066130" | "20090295207" | "4306749" | "4750783" | "5385387" | "5478135" | "5562548" | "5586351" | "5997098" | "6017088" | "6170911" | "6299249" | "6331032" | "6336682" | "6347832" | "6428099" | "6428100" | "6443522" | "6554358" | "6705676" | "6793280" | "6921359" | "6979057" | "7090294").PN. OR ("8678498").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:55 PM
L392	54	("20080150247" | "20080179848" | "20080224451" | "20080303232" | "20090102162" | "20090121455" | "20090256323" | "20100001492" | "20100109272" | "20100127480" | "4645371" | "5028061" | "5257799" | "5364137" | "5676386" | "5772279" | "5865447" | "5947555" | "6286844" | "6446990" | "6513827" | "6991248" | "7032922" | "7296820" | "7314247" | "7367581" | "7377537" | "7584985" | "7658399" | "7681894" | "7686323" | "7694996" | "7712765" | "7753398").PN. OR ("8251382").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:08 PM
L393	15	("20080231022" | "5773379" | "5947555" | "6286844" | "6893040" | "7032922" | "7267359" | "7475900" | "7658399" | "7681894" | "7766366" | "7938435" | "8033555" | "D621306").PN. OR ("8851505").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:09 PM
L394	58	("20010013689" | "20050264062" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:09 PM

		"20060214397" | "20070257458" | "20070296182" | "20080136127" | "20080231023" | "20100219616" | "20100230933" | "20120025492" | "4834403" | "5028061" | "5201535" | "5203577" | "5257799" | "5277472" | "5364137" | "5564778" | "5567008" | "5676386" | "5772279" | "5794951" | "5947555" | "6086086" | "6089653" | "6286844" | "6318807" | "6446990" | "6572134" | "6595583" | "6793280" | "6802514" | "6863286" | "6942294" | "6983986" | "7032922" | "7070197" | "7207628" | "7370913" | "7377537" | "7681894" | "7686322" | "7694996" | "7753398" | "8029014" | "8070228" | "8172253" | "8282120" | "8382150").PN. OR ("8651502").URPN.					
L395	76	("3779655" | "4191397" | "4216974" | "4412688" | "4602889" | "4634177" | "4645371" | "4834403" | "5028061" | "5257799" | "5527096" | "5772279" | "5865447" | "6286844").PN. OR ("6513827").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:12 PM
L396	49	("4915401" | "5133567" | "5277472" | "5564778" | "5644816" | "5676386" | "5772279").PN. OR ("5865447").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:13 PM
L397	88	("0763771" | "0921361" | "1167525" | "2509972" | "2982562" | "3029087" | "3083997" | "3596986" | "4306749" | "4345791" | "4371206" | "4385769" | "4501032" | "4545613" | "4634177" | "4664396" | "4733909" | "4861105" | "4915446" | "4943113" | "4984813" | "4998307" | "5052750" | "5058283" | "5203577" | "5277472" | "5385387" | "D294777"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:14 PM

		| "D305583" | "D322001" | "D325132").PN. OR ("5567008").URPN.					
L398	92	("2982562" | "3100651" | "3290050" | "3330575" | "3784252" | "4072318" | "4378946" | "4412688" | "4428598" | "4478427" | "4606550" | "4762364" | "4815764" | "5004253" | "5074575").PN. OR ("5201535").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:16 PM
L399	119	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064" | "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577" | "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:23 PM
L400	82	L397 not L399	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:23 PM
L401	20	("20040164593" | "3145442" | "5865447" | "5947555" | "6446314" | "7032922").PN. OR ("7681894").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:28 PM
L402	59	("20020175498" | "20020195797" | "20030111825" | "20040046364" | "20050098982" | "20060071452" | "20060237949" | "5772235" | "5823564" | "7032922").PN. OR	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:30 PM

		("7267359").URPN.					
L403	1	("5201535").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:32 PM
L404	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:47 PM
L405	3477	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L406	2369	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L407	5040	L405 or L406	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L408	1329175	@pd>="20170608"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:16 PM
L409	44	L407 and L408	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:16 PM
L410	3	"37808038".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/11/13 05:27 PM
L423	1	("20180201293").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 10:50 AM
L424	39	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 10:51 AM
L425	8	(Lee near2 (Jon and Hee)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM
L426	18	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM
L427	3	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM
L428	151	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 11:03 AM

		US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$ or US-3000645-$).did. or (US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-					

		6513827-$ or US- 8764048-$ or US- 8061732-$ or US- 8733784-$).did. or (US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$ or US- 9260127-$).did. or (US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US- 5522121-$ or US- 9545941-$ or US- 9056622-$ or US- 9403550-$ or US- 8899615-$ or US- 7364183-$ or US- 9637155-$ or US- 9421992-$ or US- 9545940-$ or US- 9346378-$ or US- 8678498-$ or US- 4915446-$ or US- 4634177-$ or US- 4306749-$ or US- 8851505-$).did. or (US-				

		8651502-$ or US-6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L429	55	L424 L425 L426 L427	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:25 PM
L430	3	L424 L425 L426 L427	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2019/04/15 12:25 PM
L431	80	("1707186" | "20010033069" | "20020109321" | "20060001226" | "20060131841" | "20060290107" | "20070090619" | "20080224451" | "20080231022" | "20090302578" | "20140191483" | "20160046315" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6209892" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8336904" | "8444171" | "8458880"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:26 PM

		"8585075" | "8596670" | "8696016" | "8733784" | "8764048" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652").PN. OR ("9944305").URPN.					
L432	3809	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L433	2627	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L434	5496	L432 or L433	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L435	7949590	@pd>="20171113"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L436	308	L434 and L435	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:30 PM
L437	2	("20100140902"|"20140333039").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:52 PM
L438	84	("1707186"|"20010033069"|"20020109321"|"20030025304"|"20060001226"|"20060131841"|"20060290107"|"20070001429"|"20070085303"|"20070090619"|"20070114738"|"20080224451"|"20080231022"|"20090302578"|"20140191483"|"20160046315"|"3000645"|"4542915"|"5201535"|"5338096"|"5567008"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7832755"|"7896384"|"79	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:54 PM

		38435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8585075"|"8596670"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128"|"9517787"|"9561817"|"9701333"|"9725106"|"9771095"|"9776652").PN.					
L439	7	L438 not L428	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:55 PM
L440	11	("20060214395" | "20070085303" | "20090302578" | "4763911" | "5356172" | "5395154" | "5593173" | "6431647").PN. OR ("8596670").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:58 PM
L441	12	("2007/0085303").URPN.	(USPAT)	OR	ON	ON	2019/04/15 01:05 PM
L443	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 02:37 PM
L444	1	("7377537").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 02:47 PM
L445	1	("7677585").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:08 PM
L446	1	("7481439").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:09 PM
L447	21	("4222132" | "4805938" | "4969656" | "5064209" | "5653460" | "5887935" | "5918892" | "6155592" | "6523840" | "6527294" | "6752405" | "D360392").PN. OR ("7481439").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:10 PM
L448	94	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:10 PM

		"20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L449	28	("1707186" | "4222132" | "4288089" | "4354689" | "4805938" | "4969656" | "5064209" | "5076599" | "5522121" | "5653460" | "5918892" | "6086087" | "6527294" | "6752405").PN. OR ("6938906").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:13 PM
L450	56	("20030080536" | "20040075229" | "20040124611" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:14 PM

		"20040173997" | "20050127640" | "20050242549" | "20090295128" | "20100038886" | "20100230933" | "4697823" | "4846494" | "4921261" | "4946180" | "5121940" | "5338096" | "5454575" | "5624152" | "5669623" | "5687984" | "5752738" | "6189914" | "6193263" | "6209892" | "6267406" | "6409205" | "6478327" | "6702316" | "6938906" | "6964429" | "6981709" | "7017937" | "7040694" | "7284797" | "7445230" | "7513512" | "7614640" | "7770911" | "8087680" | "8100429" | "8186705" | "8186706" | "8205894" | "8282119" | "8328208" | "8388016" | "8398098" | "8414012" | "D344474" | "D345128" | "D352923" | "D430076" | "D452192" | "D455679" | "D510549" | "D593459").PN. OR ("8641077").URPN.					
L451	32	("6896286" | "D369992" | "D519422" | "D558099" | "D566013" | "D578045" | "D579827").PN. OR ("D593459").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:15 PM
L452	66	("20020093177" | "20020109320" | "20030075903" | "20030080536" | "20030111825" | "20040032103" | "20040094922" | "20040124610" | "20040124611" | "20040245747" | "20050093259" | "20050127640" | "20050242535" | "20050242549" | "20060119079" | "20070001429" | "20070108710" | "20070194545" | "20080157491" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:18 PM

		"20090127827" | "5333893" | "5676386" | "5772279" | "5794951" | "5833261" | "5947555" | "6086087" | "6209892" | "6286844" | "6331032" | "6398233" | "6409205" | "6513827" | "6530591" | "6626452" | "6641164" | "6702316" | "6793280" | "6802514" | "6863286" | "6893031" | "6923467" | "6983986" | "6986518" | "7017921" | "7032922" | "7070197" | "7370913" | "7377537" | "7419181" | "7445229" | "7475900" | "7513512" | "7600775" | "7614641" | "7938435" | "D430076").PN. OR ("8328208").URPN.					
L453	1	("D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:25 PM
L454	3861	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L455	2688	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L456	5586	L454 or L455	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L457	969007	@pd>="20190415"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:57 AM
L458	58	L456 and L457	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:59 AM
L459	27	("20040189076"|"20050029855"|"20110175306"|"20170247044"|"20170361861"|"4577355"|"5240265"|"5246272"|"5669625"|"5681084"|"5749627"|"5806877"|"6322097"|"6530591"|"6676140"|"6830254"|"6951342"|"8070180"|"8172322"|"8596670"|"8616638"|"8690250"|"8899615"|"8991929"|"9227650"|"9868456"|"D811949").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/08/23 01:02 AM
L460	167	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/08/23 01:02 AM

		US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-					

		8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US-				

		5522121-$ or US-9545941-$ or US-9056622-$ or US-9403550-$ or US-8899615-$ or US-7364183-$ or US-9637155-$ or US-9421992-$ or US-9545940-$ or US-9346378-$ or US-8678498-$ or US-4915446-$ or US-4634177-$ or US-4306749-$).did. or (US-8851505-$ or US-8651502-$ or US-6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$ or US-8585075-$ or US-8596670-$ or US-9956979-$ or US-9944305-$ or US-9924806-$ or US-9884640-$ or US-9849903-$ or US-9840168-$ or US-10207731-$ or US-10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L461	22	L459 not L460	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 01:02 AM
L462	1	("6676140").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/08/23 01:04 AM
L464	4053	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 08:49 PM
L465	2834	(B62B9/12,28,102).CP	(US-PGPUB; USPAT;	OR	ON	ON	2020/02/28

		C.	USOCR; FPRS; EPO; JPO)				08:49 PM
L466	5847	L464 or L465	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 08:49 PM
L467	1751101	@pd>="20190823"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 09:02 PM
L468	97	L466 and L467	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 09:02 PM
L469	97	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20120181779" | "20130154215" | "20140191483" | "20150021872" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/02/28 09:03 PM

		"7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "9260127" | "D326748" | "D431798").PN. OR ("10556610").URPN.					
L470	21	("20100140902" | "20130087993" | "20130154241" | "20150159414" | "20160046315" | "7789402" | "7832755" | "8033554" | "8231136" | "8602441" | "8905427" | "8955869" | "8967647" | "9050987" | "9399477" | "9403550" | "9493179" | "9517787" | "9616912" | "9637154" | "D747669").PN. OR ("10449987").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/02/28 10:17 PM
L471	1	("20180201293").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/02/28 10:19 PM
L472	7365969	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/03/01 11:01 PM
L473	172	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/03/01 11:02 PM

		US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-20130087993-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$ or US-					

		8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US- 5522121-$ or US- 9545941-$ or US- 9056622-$ or US- 9403550-$ or US- 8899615-$ or US- 7364183-$ or US- 9637155-$ or US- 9421992-$ or US- 9545940-$ or US- 9346378-$ or US- 8678498-$ or US- 4915446-$ or US- 4634177-$ or US- 4306749-$).did. or (US- 8851505-$ or US- 8651502-$ or US-				

		6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$ or US-8585075-$ or US-8596670-$ or US-9956979-$ or US-9944305-$ or US-9924806-$ or US-9884640-$ or US-9849903-$ or US-9840168-$ or US-10207731-$ or US-10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$ or US-10293843-$ or US-10556611-$ or US-10556610-$ or US-10449987-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L474	94	L472 and L473	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/03/01 11:02 PM
L475	15	"37454081".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2020/03/01 11:04 PM
L476	16	("2010/0072732").URPN.	(USPAT)	OR	ON	ON	2020/03/01 11:07 PM
L484	1	("10730543").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:15 PM
L485	0	("202000223470").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:16 PM
L486	1	("20200223470").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:16 PM
L487	41	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 02:19 PM
L488	4211	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM

L489	2957	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L490	6047	L488 or L489	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L491	1552888	@pd>="20200228"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L492	69	L490 and L491	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:34 PM
L493	98	("10023218" | "10207731" | "10293843" | "10449987" | "10556610" | "1707186" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6209892" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8336904" | "8444171" | "8458880" | "8585075" | "8596670" | "8696016" | "8733784" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:43 PM

		"8764048" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "D593459").PN. OR ("10730543").URPN.					
L494	45	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 02:47 PM
L495	173	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-20130087993-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:56 PM

		7475900-$ or US- 7938435-$ or US- D508443-$ or US- 7497461-$ or US- 4570956-$ or US- 6923467-$ or US- 6752405-$ or US- 8157273-$ or US- 7896384-$ or US- 7677585-$ or US- 8128103-$ or US- 7597332-$ or US- 7481439-$ or US- 6851693-$ or US- 5848797-$).did. or (US- 3000645-$ or US- 8070180-$ or US- 7832755-$ or US- 7261308-$ or US- 5704627-$ or US- 5794951-$ or US- 5647601-$ or US- 2453631-$ or US- 6443467-$ or US- 8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US-				

		8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US- 5522121-$ or US- 9545941-$ or US- 9056622-$ or US- 9403550-$ or US- 8899615-$ or US- 7364183-$ or US- 9637155-$ or US- 9421992-$ or US- 9545940-$ or US- 9346378-$ or US- 8678498-$ or US- 4915446-$ or US- 4634177-$ or US- 4306749-$).did. or (US- 8851505-$ or US- 8651502-$ or US- 6893040-$ or US- 6446990-$ or US- 5865447-$ or US- 5772279-$ or US- 5567008-$ or US- 8657326-$ or US- 8491000-$ or US- 6155740-$ or US- 5947555-$ or US- 7267359-$ or US- 9776652-$ or US- 9771095-$ or US- 9725106-$ or US- 9701333-$ or US- 8585075-$ or US- 8596670-$ or US- 9956979-$ or US- 9944305-$ or US-					

		9924806-$ or US-9884640-$ or US-9849903-$ or US-9840168-$ or US-10207731-$ or US-10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$ or US-10293843-$ or US-10556611-$ or US-10556610-$ or US-10449987-$ or US-10730543-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L496	84	("1707186"|"20010033069"|"20020109321"|"20030025304"|"20060001226"|"20060131841"|"20060290107"|"20070001429"|"20070085303"|"20070090619"|"20070114738"|"20080224451"|"20080231022"|"20090302578"|"20140191483"|"20160046315"|"3000645"|"4542915"|"5201535"|"5338096"|"5567008"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7832755"|"7896384"|"7938435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8585075"|"8596670"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128"|	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:57 PM

		9517787"|"9561817"|"9701333"|"9725106"|"9771095"|"9776652").PN.					
L497	4	L496 not L495	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:58 PM
L499	84	("1707186"|"20010033069"|"20020109321"|"20030025304"|"20060001226"|"20060131841"|"20060290107"|"20070001429"|"20070085303"|"20070090619"|"20070114738"|"20080224451"|"20080231022"|"20090302578"|"20140191483"|"20160046315"|"3000645"|"4542915"|"5201535"|"5338096"|"5567008"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7832755"|"7896384"|"7938435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8585075"|"8596670"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128"|"9517787"|"9561817"|"9701333"|"9725106"|"9771095"|"9776652").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 09:06 PM
L500	41	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:39 PM
L501	10	(Lee near2 (Jon and Hee)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:43 PM
L502	25	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:56 PM

L503	5	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/11 12:00 AM
L504	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/15 03:29 PM
L505	1	("9260127").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/15 11:58 PM
L506	4378	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L507	3086	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L508	6262	L506 or L507	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L509	2515828	@pd>="20200910"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:47 PM
L510	120	L508 and L509	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:48 PM
L511	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/04/22 11:33 AM
L512	1	("10730543").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/04/22 12:44 PM
L513	4404	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L514	3109	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L515	6295	L513 or L514	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L516	184287	@pd>="20210411"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L517	15	L515 and L516	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:38 PM
L518	12	"22994051".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2021/07/02 08:52 PM
L522	4494	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM
L523	3202	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM
L524	6428	L522 or L523	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM

L525	81312	@pd>="20210702"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:58 PM
L526	6	L524 and L525	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:58 PM
L527	427	("10000226" | "10023218" | "10077063" | "10144442" | "10150496" | "10155528" | "10239550" | "10414423" | "10442453" | "10449987" | "10556610" | "20020041082" | "20030094791" | "20040090046" | "20050150053" | "20050167951" | "20050225056" | "20050242548" | "20050264064" | "20070013167" | "20070031224" | "20070045975" | "20070085303" | "20070108710" | "20070126195" | "20070187914" | "20070241524" | "20080079240" | "20080093825" | "20080211206" | "20080224450" | "20080231023" | "20090194973" | "20090206566" | "20090295128" | "20090315299" | "20100038887" | "20100052277" | "20100109293" | "20100127480" | "20100140902" | "20100230933" | "20100237637" | "20110012324" | "20110062676" | "20110148076" | "20110163519" | "20110181024" | "20110193325" | "20110221169" | "20110266762" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 03:59 PM

		"20110272925" | "20110291388" | "20110291389" | "20110309658" | "20120242062" | "20130113185" | "20130153616" | "20130154215" | "20130154322" | "20130227817" | "20130270800" | "20140044472" | "20140054939" | "20140056638" | "20140167393" | "20140183843" | "20140191483" | "20150021872" | "20150042075" | "20150074947" | "20150076774" | "20150108738" | "20150136553" | "20150152665" | "20150158334" | "20150197268" | "20150274188" | "20150291200" | "20150375766" | "20160001804" | "20160046314" | "20160159385" | "20160288814" | "20160332655" | "20170021851" | "20170144686" | "20170203779" | "20170217471" | "20170240197" | "20170297600" | "20170313337" | "20180001950" | "20180029625" | "20180111636" | "20190009811").PN. OR ("20190168794" | "20190193769" | "20190256121" | "2907372" | "3084949" | "4142027" | "4191397" | "4354689" | "4786064" | "4834403" | "4953880" | "5197753" | "5201535" | "5203577" | "5215320" | "5230523" | "5240265" | "5265931" | "5364137" | "5499831" | "5516142" | "5517718" | "5562300" |				

		"5596910" | "5601297" | "5625923" | "5634537" | "5660430" | "5676386" | "5718439" | "5765665" | "5794951" | "5845917" | "5845924" | "5893606" | "5935010" | "5975545" | "5988670" | "6022042" | "6045145" | "6062577" | "6070890" | "6086086" | "6086087" | "6102167" | "6102431" | "6120041" | "6120054" | "6155592" | "6163924" | "6176459" | "6176507" | "6193263" | "6238125" | "6241274" | "6250652" | "6264007" | "6270111" | "6286844" | "6308805" | "6318807" | "6341672" | "6347777" | "6375213" | "6375260" | "6398233" | "6402114" | "6412809" | "6439521" | "6443468" | "6446990" | "6478327" | "6478328" | "6478376" | "6499786" | "6502669" | "6513827" | "6554298" | "6557870" | "6557885" | "6572134" | "6592132" | "6595583" | "6598712" | "6626452" | "6666473" | "6692015" | "6715783" | "6736451" | "6742791" | "6793283" | "6793292" | "6830260" | "6851700" | "6863286" | "6869096" | "6896286" | "6908087" | "6983986" | "6991248" | "7017937" | "7032922" | "7044497" | "7059452" | "7070197" | "7083175" | "7118121" | "7188858" | "7210699" | "7213818" | "7232019" | "7267359" | "7278652" | "7281732" | "7338122" | "7367581" | "7370913" | "7377537" | "7383925" | "7396039" | "7401803" | "7404569" | "7410186" | "7445228").PN. OR ("7455336" | "7475900" | "7497449" | "7497461" | "7500692" | "7537093" | "7550692" | "7566068" | "7597396" | "7600775" | "7614641" | "7618093" | "7632035" | "7658399"				

		| "7677590" | "7681894" | "7686322" | "7686323" | "7694980" | "7694995" | "7712765" | "7753398" | "7766366" | "7766367" | "7780183" | "7784801" | "7798500" | "7798515" | "7832755" | "7871099" | "7871100" | "7900952" | "7909353" | "7918001" | "7922182" | "7946650" | "7971884" | "7971897" | "7971933" | "8033555" | "8056975" | "8061732" | "8087680" | "8087688" | "8092111" | "8100429" | "8157273" | "8162025" | "8172243" | "8172253" | "8186705" | "8205906" | "8205907" | "8220118" | "8226110" | "8226111" | "8231136" | "8240700" | "8251382" | "8262103" | "8276935" | "8282120" | "8291555" | "8313115" | "8316999" | "8322744" | "8366127" | "8371606" | "8376375" | "8382127" | "8382150" | "8388254" | "8393679" | "8398096" | "8398111" | "8398143" | "8414012" | "8418816" | "8444170" | "8448977" | "8458880" | "8459665" | "8474836" | "8474854" | "8485546" | "8490757" | "8491000" | "8505956" | "8517412" | "8550489" | "8556780" | "8567311" | "8567866" | "8585063" | "8585075" | "8590919" | "8596669" | "8596670" | "8602442" | "8608190" | "8616638" | "8635743" | "8646158" | "8651502" | "8657308" | "8657311" | "8662516" | "8672341" | "8678498" | "8696015" | "8702118" | "8708364" | "8713765" | "8714581" | "8720936" | "8764048" | "8777253" | "8789662" | "8827283" | "8840132" | "8844964" | "8851505" | "8864166" | "8876147" | "8882134").PN. OR ("8899614" | "8899615" | "8905427" | "8905428"					

		| "8919806" | "8919807" | "8936261" | "8955856" | "8955868" | "8955869" | "8960734" | "8961057" | "8973217" | "8985616" | "8991838" | "8991853" | "8991854" | "8997948" | "9010773" | "9044104" | "9050993" | "9067613" | "9085312" | "9090125" | "9108658" | "9108659" | "9139044" | "9150236" | "9174662" | "9193370" | "9193373" | "9205855" | "9216755" | "9260127" | "9260128" | "9327752" | "9399477" | "9403449" | "9403549" | "9403550" | "9415790" | "9428208" | "9463822" | "9481206" | "9493178" | "9517786" | "9517789" | "9522615" | "9540028" | "9545940" | "9545941" | "9561816" | "9610966" | "9630642" | "9637153" | "9643640" | "9701332" | "9725107" | "9776652" | "9796404" | "9815487" | "9821831" | "9840168" | "9849903" | "9862401" | "9884640" | "9902417" | "9908551" | "9944305" | "9950730" | "9962011" | "D576084" | "D643344" | "D643345" | "D643346" | "D643786" | "D683974" | "D699633" | "D716705" | "D756852").PN. OR ("11059510").URPN.					
L528	2	("20130270800" | "8157273").PN. OR ("11052933").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:01 PM
L529	2	("20130270800" | "8157273").PN. OR ("11052933").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:03 PM
L530	2	"49324395".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2021/08/11 04:04 PM
L531	21	("0522608" | "0677195" | "0720692" | "3997180" | "4620686" | "7364183" | "7475900" | "8157273" | "8398143" | "8444171" | "8596670" | "D598333").PN. OR ("8844964").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:05 PM

L532	1	("20200385045").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 12:35 AM
L533	111	500 501 502 503 494	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 09:34 AM
L534	3	500 501 502 503 494	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	AND	ON	ON	2021/10/13 09:35 AM
L535	92	500 501 502 503	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2021/10/13 09:36 AM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L536	19	533 NOT 535	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 09:36 AM
L537	12	"57325932".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/13 09:38 AM
L538	6	"38367586".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/14 09:55 AM
L539	30	("3145442" | "5865447" | "5947555" | "6446314" | "7032922" | "20040164593").pn. OR ("7681894").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/14 09:56 AM
L540	3527	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM

L541	4425	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM
L542	819242	@pd>="20210811"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM
L543	6717	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:14 AM
L544	6006	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:14 AM
L545	10662	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2021/10/14 11:14 AM

			MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)				
L546	2061	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	AND	ON	ON	2021/10/14 11:14 AM
L547	36	545 AND 542	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	AND	ON	ON	2021/10/14 11:15 AM
L548	10	("20100244408" | "20110012324" | "20110241313" | "20150259005" | "20180027989" | "20190256120" | "20190320812" | "20190320814" | "20190322304" | "20200239058").pn. OR ("11091186").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/10/14 11:27 AM
L549	1	("7475900").pn.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/10/14 09:17 PM
L550	67	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2021/10/15 09:23 AM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)				
L551	6	(Simpson near2 (Stacy AND Noel)).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:23 AM
L552	29	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:24 AM
L553	18	(Lee near2 (Jon AND Hee)).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:24 AM
L554	92	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2021/10/15 09:25 AM

			AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)				
L555	6	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	AND	ON	ON	2021/10/15 09:25 AM
L556	49	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:26 AM
L557	167	545 AND (seat near2 (attach$4 AND convert$4))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2021/10/15 09:43 AM

			JPO; DERWENT)				
L558	405	545 AND ((double OR tandem) SAME stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:45 AM
L559	115914245	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L560	3529	545 AND 559	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L561	146	560 AND ((double OR tandem) SAME stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L562	10	("6595583" | "7559606" | "7681894" | "8033555").pn. OR ("8313115").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/15 09:49 AM
L563	1	"52582129".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/15 11:58 AM
L564	1	("2015/0061249").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/15 11:58 AM
L565	4853	545 AND 559	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/02/02 05:41 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)				
L566	2093553	@pd>="20211015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 05:42 PM
L567	0	565 AND 566	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 05:42 PM
L568	73	545 AND 566	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 05:42 PM
L569	1	("6286844").pn.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2022/02/02 05:45 PM
L570	12	("4805938" | "5653460"	(US-PGPUB; USPAT;	AND	ON	ON	2022/02/02

		| "5848797" | "6540239" | "6938906" | "6981709" | "7597332" | "9056622" | "9283978" | "9771095" | "20070001410" | "20100072731").pn. OR ("11220282").urpn. AND (PGPB | USPT | USOC).dbnm.	USOCR)				06:03 PM
L571	228	((US-20100052277-A1 OR US-20070114738-A1 OR US-20070001429-A1 OR US-20060290107-A1 OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1 OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1 OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/02 06:32 PM

		OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-7896384-B2 OR US-7677585-B2 OR US-8128103-B1 OR US-7597332-B2 OR US-7481439-B2 OR US-6851693-B2 OR US-5848797-A OR US-3000645-A OR US-8070180-B2 OR US-7832755-B2 OR US-7261308-B2 OR US-5704627-A OR US-5794951-A OR US-5647601-A OR US-2453631-A OR US-6443467-B1 OR US-8205906-B2 OR US-8262103-B2 OR US-8336904-B2 OR US-8371606-B2 OR US-8251382-B2 OR US-7377537-B2 OR US-7320471-B2 OR US-7032922-B1 OR US-7367581-B2 OR US-8029007-B2 OR US-7699325-B2 OR US-6827356-B2 OR US-8398098-B2 OR US-7766366-B2 OR US-6286844-B1 OR US-6513827-B1 OR US-8764048-B1 OR US-					

		8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US-				

		6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US- 10556611-B2 OR US- 10556610-B2 OR US- 10449987-B2 OR US- 10730543-B2 OR US- 10926785-B2 OR US- 10899377-B2 OR US- 10974754-B2 OR US- 10994763-B2 OR US- 11001289-B2 OR US- 11059510-B2 OR US- 11052933-B2 OR US- 8844964-B2 OR US- 6086087-A OR US- 9643640-B2 OR US- 9616912-B2 OR US- 9283978-B2 OR US- 9050987-B2 OR US- 9004524-B1 OR US- 8857829-B2 OR US- 8807588-B2 OR US- 8708364-B2 OR US- 8684395-B2 OR US- 8602441-B2 OR US- 8505958-B2 OR US- 8480115-B2 OR US- 8322745-B2 OR US- 6585284-B2 OR US- 6267406-B1 OR US-				

		11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
L572	9	571 AND (central$ near2 wheel)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 06:32 PM
L573	1	("20200385045").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 10:10 AM
L574	11	"51060413".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	OFF	OFF	2022/02/03 12:40 PM
L575	19	"46172541".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	OFF	OFF	2022/02/03 12:46 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)				
L576	1	(D593459).pn.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 01:26 PM
L577	13	("10449987"|"10556610"|"10899377"|"11091186"|"6267406"|"6286844"|"6513827"|"7377537"|"7475900"|"7971897"|"8313115"|"8602441"|"D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 01:28 PM
L578	2332892	@pd>="20220202"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/06/15 12:13 PM
L579	11186	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2022/06/15 12:14 PM
L580	126	579 AND 578	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/06/15 12:14 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L581	14	("292933" | "329579" | "4953887" | "6676140" | "8070180" | "8128103" | "8152177" | "8186705" | "8596670" | "8915516" | "9511789" | "10077063" | "20070001429" | "20100283227" | "20150217792" | "20150232114").pn. OR ("11338836").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 12:24 PM
L582	101	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "9260127" | "10556610" | "20020125662" | "20040011884" | "20050253348" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 12:25 PM

		"20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100066058" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110012325" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20120181779" | "20130154215" | "20140191483" | "20150021872" | "20160159385").pn. OR ("11292499").urpn. AND (PGPB | USPT | USOC).dbnm.					
L583	114	("1707186" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6086087" | "6209892" | "6267406" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6585284" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "D593459" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8322745" | "8336904" | "8444171" | "8458880" | "8480115" | "8505952"	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2022/06/15 12:50 PM

		| "8585075" | "8596670" | "8602441" | "8696016" | "8733784" | "8764048" | "8844964" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10023218" | "10207731" | "10293843" | "10449987" | "10556610" | "10730543" | "10899377" | "10926785" | "10974754" | "10994763" | "11001289" | "11052933" | "11059510" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315").pn. OR ("11192568").urpn. AND (PGPB | USPT | USOC).dbnm.					
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		OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-7896384-B2 OR US-7677585-B2 OR US-8128103-B1 OR US-7597332-B2 OR US-7481439-B2 OR US-6851693-B2 OR US-5848797-A OR US-3000645-A OR US-8070180-B2 OR US-7832755-B2 OR US-7261308-B2 OR US-5704627-A OR US-5794951-A OR US-5647601-A OR US-2453631-A OR US-6443467-B1 OR US-8205906-B2 OR US-8262103-B2 OR US-8336904-B2 OR US-8371606-B2 OR US-8251382-B2 OR US-					

		7377537-B2 OR US- 7320471-B2 OR US- 7032922-B1 OR US- 7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US-				

		8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US- 10556611-B2 OR US- 10556610-B2 OR US- 10449987-B2 OR US- 10730543-B2 OR US- 10926785-B2 OR US- 10899377-B2 OR US- 10974754-B2 OR US- 10994763-B2 OR US- 11001289-B2 OR US- 11059510-B2 OR US- 11052933-B2 OR US- 8844964-B2 OR US- 6086087-A OR US- 9643640-B2 OR US- 9616912-B2 OR US- 9283978-B2 OR US-				

		9050987-B2 OR US-9004524-B1 OR US-8857829-B2 OR US-8807588-B2 OR US-8708364-B2 OR US-8684395-B2 OR US-8602441-B2 OR US-8505958-B2 OR US-8480115-B2 OR US-8322745-B2 OR US-6585284-B2 OR US-6267406-B1 OR US-11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2 OR US-11338836-B2 OR US-11292499-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
L587	25456812	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2022/06/15 01:30 PM
L588	110	587 AND 586	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2022/06/15 01:31 PM
L589	6	"53797406".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/06/15 02:05 PM
L590	85	("4542915" | "4725071" | "D321850" | "5338096"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 02:06 PM

		| "5417449" | "D359937" | "D375706" | "5664795" | "6086087" | "D429664" | "D430076" | "D431212" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "D636300" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" | "8480115" | "8684395" | "8714582" | "8757646" | "8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" | "20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756").pn. OR ("9227650").urpn. AND (PGPB | USPT | USOC).dbnm.					
L591	102	("119331" | "1138802" | "1269379" | "1707186" | "1890469" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 09:09 PM

		"4391453" | "4403807" | "4684148" | "4725071" | "D296540" | "4805938" | "D300310" | "4834415" | "4834452" | "4858947" | "4872692" | "D305316" | "4969656" | "5018754" | "5033761" | "D321850" | "5064209" | "D328047" | "5167425" | "5221106" | "5230523" | "D348489" | "5338096" | "D360392" | "D370437" | "D382516" | "5653460" | "5664795" | "5772235" | "D404344" | "5887935" | "5918892" | "6086087" | "6099022" | "D430512" | "D431212" | "6267406" | "D452191" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" | "6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "D568794" | "7367581" | "7516966" | "D593458" | "D595621" | "D598333" | "7597332" | "7896384" | "8128103" | "8157273" | "8398143" | "20040251063" | "20070045975" | "20090115151" | "20090160162" | "20100038887" | "20100140902" | "20110175330").pn. OR ("8905427").urpn. AND (PGPB | USPT | USOC).dbnm.				
L592	1	"41399621".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/06/15 09:15 PM

L593	14	("2009/0302578").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 09:20 PM
L594	1	("20200385045").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/22 12:25 PM
L595	52	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/23 03:30 PM
L596	95	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/23 03:30 PM
L597	670	545 AND 542	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	AND	ON	ON	2022/09/23 03:52 PM
L598	1304890	@pd>="20220615"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/09/23 03:53 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L599	75	597 AND 598	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 03:53 PM
L600	31	("10449987"|"10556610"|"10899377"|"11091186"|"11192568"|"11203371"|"11208135"|"11208136"|"11220282"|"11292499"|"11338836"|"20060290107"|"5167425"|"5338096"|"5988670"|"6045145"|"6086087"|"6267406"|"6286844"|"6513827"|"7377537"|"7475900"|"7563170"|"7938435"|"7971897"|"8313115"|"8602441"|"9403550"|"D429476"|"D430076"|"D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 03:54 PM
L601	232	((US-20100052277-A1 OR US-20070114738-A1 OR US-20070001429-A1 OR US-20060290107-A1 OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/23 03:54 PM

		OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1 OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1 OR US-20150232114-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-					

		7896384-B2 OR US- 7677585-B2 OR US- 8128103-B1 OR US- 7597332-B2 OR US- 7481439-B2 OR US- 6851693-B2 OR US- 5848797-A OR US- 3000645-A OR US- 8070180-B2 OR US- 7832755-B2 OR US- 7261308-B2 OR US- 5704627-A OR US- 5794951-A OR US- 5647601-A OR US- 2453631-A OR US- 6443467-B1 OR US- 8205906-B2 OR US- 8262103-B2 OR US- 8336904-B2 OR US- 8371606-B2 OR US- 8251382-B2 OR US- 7377537-B2 OR US- 7320471-B2 OR US- 7032922-B1 OR US- 7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US-				

		7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US-				

		D593459-S OR US-D621306-S OR US-8328208-B2 OR US-7513512-B2 OR US-10293843-B2 OR US-10556611-B2 OR US-10556610-B2 OR US-10449987-B2 OR US-10730543-B2 OR US-10926785-B2 OR US-10899377-B2 OR US-10974754-B2 OR US-10994763-B2 OR US-11001289-B2 OR US-11059510-B2 OR US-11052933-B2 OR US-8844964-B2 OR US-6086087-A OR US-9643640-B2 OR US-9616912-B2 OR US-9283978-B2 OR US-9050987-B2 OR US-9004524-B1 OR US-8857829-B2 OR US-8807588-B2 OR US-8708364-B2 OR US-8684395-B2 OR US-8602441-B2 OR US-8505958-B2 OR US-8480115-B2 OR US-8322745-B2 OR US-6585284-B2 OR US-6267406-B1 OR US-11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2 OR US-11338836-B2 OR US-11292499-B2 OR US-10077063-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did.					

		AND DWPI.dbnm.)					
L602	104	600 NOT 601	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/23 03:54 PM
L603	11	("6209892" | "6250653" | "9849903" | "9944305" | "10207731" | "10449987" | "10899377" | "20100013281" | "20120169021" | "20140345980" | "20160016601").pn. OR ("11370468").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 03:58 PM
L604	3	"47750100".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/09/23 04:06 PM
L605	11	"66397144".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/09/23 04:07 PM

L606	22	("6086086" | "6209892" | "8061732" | "8474854" | "8696016" | "9085312" | "9399477" | "20010013689" | "20020005628" | "20030201617" | "20070194545" | "20100127480" | "20100230933" | "20100244408" | "20100259021" | "20110298198" | "20130087993" | "20150042056" | "20160046315" | "20170313339").pn. OR ("10899377").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:07 PM
L607	1	("7475900").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:08 PM
L608	48	("5333893" | "D429664" | "D430076" | "6209892" | "6513827" | "6863286" | "7032922" | "7367581" | "7377537" | "20030111825").pn. OR ("7475900").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:09 PM
L609	114	("1707186" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6086087" | "6209892" | "6267406" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6585284" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "D593459" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8322745" | "8336904" | "8444171" | "8458880" | "8480115" | "8505952" | "8585075" | "8596670"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:17 PM

		| "8602441" | "8696016" | "8733784" | "8764048" | "8844964" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10023218" | "10207731" | "10293843" | "10449987" | "10556610" | "10730543" | "10899377" | "10926785" | "10974754" | "10994763" | "11001289" | "11052933" | "11059510" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315").pn. OR ("11192568").urpn. AND (PGPB | USPT | USOC).dbnm.					
L610	108	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:18 PM

		| "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "20140191483").pn. OR ("9260127").urpn. AND (PGPB | USPT | USOC).dbnm.					
L611	109	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:26 PM

		| "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215").pn. OR ("8882134").urpn. AND (PGPB | USPT | USOC).dbnm.					
L612	28	("7789402" | "7832755" | "8033554" | "8231136" | "8602441" | "8905427" | "8967647" | "9050987" | "8955869" | "D747669" | "9399477" | "9403550" | "9493179" | "9517787"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:31 PM

		| "9616912" | "9637154" | "20100140902" | "20130087993" | "20130154241" | "20150159414" | "20160046315").pn. OR ("10449987").urpn. AND (PGPB | USPT | USOC).dbnm.					
L613	4	"35160119".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/09/23 04:50 PM
L614	25	("2006/0290107").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:50 PM
L615	11538	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L616	75	615 AND 598	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM

L617	2793	615 AND (fold$ SAME pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L618	610	615 AND (fold$ near2 pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L619	26	601 AND (fold$ near2 pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:11 PM
L620	62	("2986400" | "4216974" | "4294464" | "4544178" | "4614454" | "4834403" | "5257799" | "6086086" | "6095548" | "6102431" | "6102432" | "6105998" | "6270111" | "6869096" | "6991248" | "7077420" | "7185909" | "7237795" | "7296820" | "7396039" | "7404569" | "7614641" | "7632035" | "7712765"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 05:27 PM

		| "7798500" | "7798515" | "7832755" | "7832756" | "8087689" | "8205907" | "8251382" | "8444170" | "20060038378" | "20060082104" | "20070063487" | "20070075525" | "20070096434").pn. OR ("8714581").urpn. AND (PGPB | USPT | USOC).dbnm.					

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N163	0	(A seat attachment for a stroller, comprising a separate left attachment portion, wherein the left attachment portion comprises a connector portion capable of removably connecting to a stroller frame adjacent a left front wheel of the stroller and a left seat support element removably connecting a seat in either a forward or backward position and a separate right attachment portion, wherein the right attachment portion comprises a connector portion capable of removably connecting to the stroller frame adjacent a right front wheel of the stroller and a right seat support element removably connecting the seat in either a forward or backward position between the left and right seat support elements).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/03 05:17 PM
N164	0	(seat attachment stroller separate left right attachment portion connector portion removably connecting frame adjacent front	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:35 AM

		wheel seat support element removably connecting seat forward backward position).clm.					
N165	0	(seat attach$4 stroller separate left right portion connect$4 remov$4 frame adjacent front wheel support$4 element forward backward position).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:46 AM
N166	1	(seat attach$4 stroller separate left right connect$4 remov$4 frame wheel support$4).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:46 AM
N167	19	(seat attach$4 stroller left right connect$4 remov$4 frame wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:47 AM
N213	0	(A seat attachment for a stroller, comprising a separate left attachment portion, wherein the left attachment portion comprises a connector portion capable of removably connecting to a stroller frame adjacent a left front wheel of the stroller and a left seat support element removably connecting a seat in either a forward or backward position and a separate right attachment portion, wherein the right attachment portion comprises a connector portion capable of removably connecting to the stroller frame adjacent a right front wheel of the stroller and a right seat support element removably connecting the seat in either a forward or backward position between the left and right seat support elements).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:26 PM
N214	1	(seat attach$4 stroller	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24

		separate left right connect$4 remov$4 frame wheel support$4).clm.					02:26 PM
N215	19	(seat attach$4 stroller left right connect$4 remov$4 frame wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:26 PM
N216	19	(seat$3 attach$4 stroller left right connect$4 remov$4 fram$3 wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:29 PM
N217	68	(seat$3 attach$4 stroller connect$4 remov$4 fram$3 wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:29 PM
N218	5	("20020036391" | "20070069505" | "20070187914" | "4753453" | "4779883").PN. OR ("8033554").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2014/09/24 02:32 PM
N248	4	(US-20070187914-$).did. or (US-7311323-$ or US-8444171-$ or US-8033554-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2015/04/20 02:14 PM
N411	0	(A stroller, comprising a stroller frame a plurality of wheels coupled to the stroller frame a first seat coupled to the stroller frame a first seat attachment housing disposed along a first portion of the stroller frame and comprising a first adapter receiving cavity extending through the first seat attachment housing and a first door rotatably coupled to the first seat attachment housing along a top end of the first adapter receiving cavity, wherein the first door rotates from a closed configuration, preventing access to the first adapter receiving cavity from a top side of the first seat attachment housing to an open configuration allowing access to the first adapter receiving cavity from the top side	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:52 PM

		of the first seat attachment housing a second seat attachment housing disposed along a second portion of the stroller frame and comprising a second adapter receiving cavity extending through the second seat attachment housing and a second door rotatably coupled to the second seat attachment housing along a second top end of the second adapter receiving cavity, wherein the second door rotates from a second closed configuration, preventing access to the second adapter receiving cavity from a top side of the second seat attachment housing, to a second open configuration allowing access to the second adapter receiving cavity from the top side of the second seat attachment housing a first removable seat attachment adapter removably coupled to the first seat attachment housing and a second removable seat attachment adapter removably coupled to the second seat attachment housing).CLM.					
N412	0	(stroller frame wheel seat attachment housing first adapter receiving cavity extending through housing first door rotatably coupled to housing closed configuration preventing access to cavity from top side open configuration allowing access to cavity first	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:55 PM

		removable seat attachment adapter removably coupled to housing and second removable seat attachment adapter removably coupled to housing).CLM.					
N413	1	(stroller frame wheel seat attach$4 hous$4 adapter receiv$4 cavity extend$4 door rotat$4 closed configuration prevent$4 access$4 open configuration allow$4 access).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:56 PM
N414	1	(stroller frame wheel seat attach$4 hous$4 adapter receiv$4 cavity door rotat$4 closed configuration prevent$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:21 PM
N415	1	(stroller wheel seat attach$4 hous$4 cavity door closed configuration prevent$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:22 PM
N416	1	(stroller wheel seat attach$4 hous$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:22 PM
N417	1	(stroller seat attach$4 hous$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:23 PM
N418	1	(stroller seat$3 attach$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N419	1	(stroller seat$3 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N420	3	(stroller seat$3 door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N421	2	(stroller seat$3 cavit$3 clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:26 PM
N422	21	(stroller seat$3 cavit$3 clos$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:26 PM
N442	5	(US-20090243261-$).did. or (US-7938435-$ or US-6447001-$ or US-8585075-$ or US-8596670-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2019/04/15 11:03 AM
N463	2	(US-20090243261-$).did. or (US-6447001-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2019/08/23 01:02 AM

N477	2	(US-20090243261-$).did. or (US-6447001-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2020/03/01 11:02 PM
N478	0	(A stroller, comprising a stroller frame comprising a first upper tube support frame a second upper tube support frame a first front wheel support frame rotatable with respect to the first upper tube support frame a second front wheel support frame rotatable with respect to the second upper tube support frame a first back wheel support frame rotatable with respect to the first upper tube support frame a second back wheel support frame rotatable with respect to the second upper tube support frame a plurality of wheels comprising at least one front wheel and a plurality of back wheels a first seat coupled to the stroller frame at a first vertical position of the stroller frame a first seat attachment housing disposed along the first front wheel support frame a first seat attachment adapter removably coupled to the first seat attachment housing stroller frame at a second vertical position of the stroller frame that is below the first vertical position a second seat attachment housing disposed along the second front wheel support frame a second seat attachment adapter removably coupled to the second seat attachment housing at a third vertical position of the stroller frame that is	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:05 PM

		below the first vertical position wherein the first seat is coupled along the first upper tube support frame and the second upper tube support frame and wherein a second seat is removably coupled to the first seat attachment adapter and the second seat attachment adapter to position the second seat at a fourth vertical position that is below the first vertical position).CLM.					
N479	1	(stroller frame wheel first seat first vertical position attachment housing adapter removably coupled below).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:07 PM
N480	1	(stroller frame wheel seat vertical position attach$4 hous$4 adapt$4 remov$4 coupl$4 below).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:10 PM
N481	4	(stroller frame wheel seat attach$4 hous$4 adapt$4 remov$4 coupl$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:10 PM
N482	11	(stroller frame wheel seat attach$4 adapt$4 remov$4 coupl$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:11 PM
N483	33	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:12 PM
N498	2	(US-20090243261-$).did. or (US-6447001-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2020/09/10 02:56 PM
N519	37	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N520	37	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N521	0	N519 not N520	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N532	0	(A stroller, comprising a stroller frame comprising a first upper tube support frame a second upper tube support frame a front	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:23 PM

		wheel support frame rotatably adjusted to be substantially parallel with respect to the first upper tube support frame when the stroller frame is unfolded from a folded configuration a back wheel support frame rotatably adjusted to be substantially parallel with respect to the first upper tube support frame when the stroller frame is unfolded from a folded configuration a plurality of wheels comprising at least one front wheel and a plurality of back wheels a first seat coupled along the first upper tube support frame and the second upper tube support frame at a first vertical position of the stroller frame a first seat attachment adapter coupled to the front wheel support frame at a second vertical position of the stroller frame that is below the first vertical position a second seat attachment adapter coupled to the front wheel support frame at a third vertical position of the stroller frame that is below the first vertical position wherein a second seat is removably coupled to the first seat attachment adapter and the second seat attachment adapter to position the second seat at a fourth vertical position that is below the first vertical position).CLM.					
N533	0	(stroller frame wheel fold$4 seat$4 vertical$4 position$4 attach$4 adapter coupl$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:31 PM
N534	0	(stroller fram$4 wheel	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12

		fold$4 seat$4 vertical$4 position$4 attach$4 adapter).CLM.					04:34 PM
N535	54	(stroller fram$4 wheel fold$4 seat$4 vertical$4 position$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:35 PM
N536	70	("4834415" | "4886289" | "5018754" | "5167425" | "5417449" | "5664795" | "5769448").PN. OR ("6086087").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/08/12 04:51 PM
N537	32	("20010013688" | "20030020259" | "20060226635" | "20060290107" | "20090039620" | "20100038886" | "20100078916" | "20100244393" | "3223431" | "4542915" | "4725071" | "4858947" | "4886289" | "5221106" | "5333893" | "5417449" | "5624152" | "5887935" | "6086087" | "6267406" | "6530591" | "6843498" | "6935652" | "7475900" | "D360392").PN. OR ("8602441").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/08/12 05:01 PM
N538	0	(A stroller, comprising: a stroller frame; a plurality of wheels comprising at least one central wheel AND a plurality of back wheels; a first seat coupled to the stroller frame at a first vertical position of the stroller frame AND configured to hold a first child in the stroller; a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel extends from a front of the stroller; a second seat attachment housing coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position,	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/02 06:30 PM

		wherein a second front wheel extends from the front of the stroller; wherein a first seat attachment adapter is coupled to the first seat attachment housing AND wherein a second seat attachment adapter is coupled to the second seat attachment housing).CLM.					
N539	0	(stroller frame wheel central$ wheel back seat attach$ housing vertical position front wheel adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 08:56 AM
N540	0	(stroller frame wheel central$ back seat attach$ housing front adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N541	0	(stroller frame wheel central$ seat attach$ front adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N542	1	(stroller frame wheel central$ seat attach$ front adapter).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N543	34	(stroller frame wheel central$ seat attach$ front).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N544	0	(A stroller, comprising: a stroller frame; a plurality of wheels comprising a plurality of back wheels; a first seat coupled to the stroller frame at a first vertical position of the stroller frame a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel extends from a front of the stroller; a second seat attachment housing coupled to the stroller frame at a third vertical position of the stroller	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:34 PM

		frame that is below the first vertical position, wherein a second front wheel extends from the front of the stroller; a first seat attachment adapter coupled to the first seat attachment housing; AND a second seat attachment adapter coupled to the second seat attachment housing).CLM.					
N545	0	(stroller frame wheel seat first vertical position first seat attachment housing below first front wheel extends from a front of the stroller second front wheel extend$ from front of stroller first seat attachment adapter coupl$ to first seat attachment housing).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:42 PM
N546	0	(stroller frame wheel seat first vertical position first seat attachment housing below first front wheel extends from front of stroller second front wheel extend$ from front of stroller first seat attachment adapter coupl$ to first seat attachment housing).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:43 PM
N547	2	(stroller frame wheel seat vertical$ position attach$ housing below front extend$ adapter coupl$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:48 PM
N548	5	(stroller frame wheel seat$ vertical$ position attach$ housing adapter coupl$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:53 PM