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1790-1975	X1- X11,280; 1-3,930,270	D1- D242,880	PP1- P4,000	RX1-RX125;RE1-RE29,094	T855,019-T941,025;		AI2-AI318

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 - Udelené patenty – 1836 (Plné texty od roku 1976)
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Design -- D339,456 D321987 D000152

Plant -- PP08,901 PP07514 PP00003

Reissue -- RE35,312 RE12345 RE00007

Defensive Publication -- T109,201 T855019 T100001

Statutory Invention Registration -- H001,523 H001234 H000001

Re-examination -- RX12

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United States Patent
Groves , et al.

7,500,000
March 3, 2009

Method and system for assigning or creating a resource

Abstract

An example of a method for assigning a resource (for example, storage) includes receiving a request for a resource, wherein the request includes a list of paths. This example also includes retrieving a HardwareAccount, Controller, and an AccessAuthorization object for a first path in the list of paths. This example further includes making an attach device request to a CIMOM for a first available resource, using the Controller and the AccessAuthorization object. This example also includes determining if the first available resource was successfully attached, and if so, recording the assignment as successful, and if not, rolling back all assignments for the first available resource that were previously recorded as successful. Another aspect of the invention is a method for creating at least one LUN.

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Assignee: International Business Machines Corporation (Armonk, NY)

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Filed: December 17, 2003

Current U.S. Class: 709/226 ; 707/999.008; 707/999.01; 707/999.1; 711/100; 711/114; 711/163; 718/1; 719/328

Current International Class: G06F 15/173 (20060101)

Field of Search: 709/223,224 707/1,100 719/328 714/6 711/100,163

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United States Patent: 7500000

Attorney, Agent or Firm: Victor; David W. Konrad Raynes & Victor LLP

Claims

What is claimed is:

1. A computer storage medium tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform a method comprising the following operations: retrieving a list of paths to a model LUN, wherein the model LUN is a LUN anywhere in the SAN that can be accessed, wherein the request includes the list of paths; retrieving a HardwareAccount, Controller, and an AccessAuthorization object for a first path in the list of paths; making a connection to the model LUN using the CIMOM for a first available LUN, using the Controller and the AccessAuthorization object; determining if the first available LUN was successfully attached to the host and if not, rolling back all assignments for the first available LUN that were previously recorded as successful; wherein the request further includes a requested number of LUNs; and if it is determined that the first available LUN was successfully attached on the first path, the operations further comprises repeating the retrieving, making, and determining operations for a second path in the list of paths.
2. The computer storage medium of claim 1, wherein the request further comprises a requested number of LUNs.
3. The computer storage medium of claim 1, wherein if it is determined that the first available LUN was successfully attached using each path in the list of paths, the operations further comprises repeating the retrieving, making, and determining operations for a second path in the list of paths.
4. The computer storage medium of claim 1, wherein the making and determining operations are repeated for a second available LUN.
5. The computer storage medium of claim 4, wherein if it is determined that the second available LUN was successfully attached on the first path, the operations further comprises repeating the retrieving, making, and determining operations for the second available LUN for a second path in the list of paths.
6. The computer storage medium of claim 1, wherein the operations further comprise selecting the first available LUN from all LUNs in the SAN that are available.
7. The computer storage medium of claim 6, wherein a best fit algorithm is used for selecting the first available LUN.
8. The computer storage medium of claim 1, wherein the operations further comprise selecting the first available LUN from all LUNs in a storage pool that is available.
9. The computer storage medium of claim 8, wherein a best fit algorithm is used for selecting the first available LUN.
10. The computer storage medium of claim 1, wherein the method further comprises the operation of determining if connectivity information is good, and if not, repeating the operations for a second path in the list of paths.



US007500000B2

(12) **United States Patent**
Groves et al.

(10) **Patent No.:** **US 7,500,000 B2**
(45) **Date of Patent:** **Mar. 3, 2009**

(54) **METHOD AND SYSTEM FOR ASSIGNING OR CREATING A RESOURCE**

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(Continued)

(73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 751 days.

OTHER PUBLICATIONS

(21) Appl. No.: **10/739,136**

Groves, et al., U.S. Appl. No. 10/739,209, titled "Method and system for assigning a resource", filed Dec. 17, 2003, 24 pages plus 3 drawing sheets.

(22) Filed: **Dec. 17, 2003**

(Continued)

(65) **Prior Publication Data**
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Primary Examiner—Dustin Nguyen

(74) *Attorney, Agent, or Firm*—David W. Victor, Konrad Raynes & Victor LLP

(51) **Int. Cl.**
G06F 15/173 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** **709/226**; 719/328; 707/8;
707/10; 707/100; 718/1; 711/100; 711/114;
711/163

(58) **Field of Classification Search** 709/223,
709/224; 707/1, 100; 719/328; 714/6; 711/100,
711/163

See application file for complete search history.

An example of a method for assigning a resource (for example, storage) includes receiving a request for a resource, wherein the request includes a list of paths. This example also includes retrieving a HardwareAccount, Controller, and an AccessAuthorization object for a first path in the list of paths. This example further includes making an attach device request to a CIMOM for a first available resource, using the Controller and the AccessAuthorization object. This example also includes determining if the first available resource was successfully attached, and if so, recording the assignment as successful, and if not, rolling back all assignments for the first available resource that were previously recorded as successful. Another aspect of the invention is a method for creating at least one LUN.

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13 Claims, 6 Drawing Sheets



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U.S. Patent

Mar. 3, 2009

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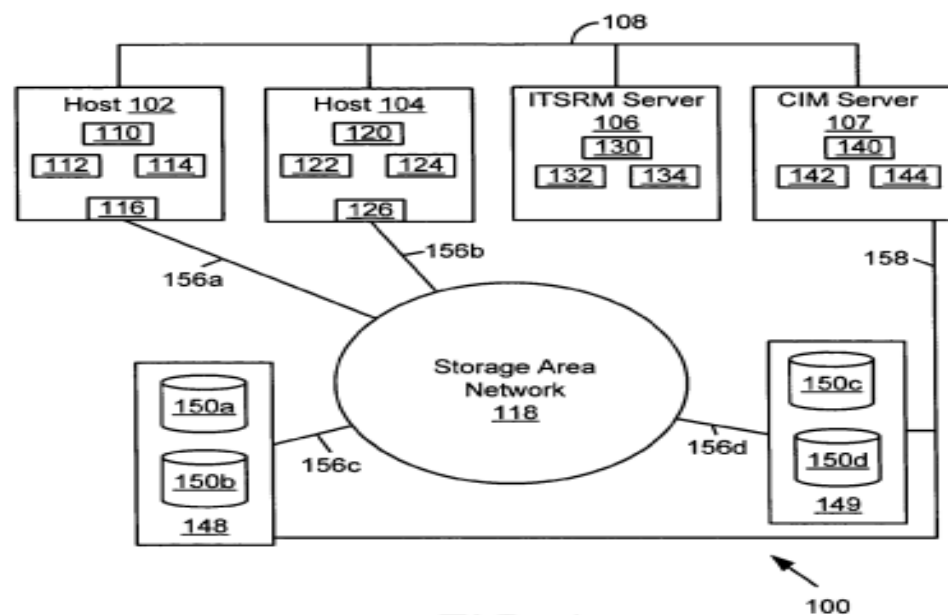


FIG. 1



US 7,500,000 B2

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METHOD AND SYSTEM FOR ASSIGNING OR CREATING A RESOURCE

BACKGROUND

1. Technical Field

The present invention relates to management and control of resources in a computing system. More particularly, the invention concerns assigning or creating a resource, such as storage, for a device, such as a host computer.

2. Description of Related Art

Modern computing systems frequently utilize a large number of computing devices, storage devices, and other components. In a common implementation, a Storage Area Network (SAN) is used to connect computing devices with a large number of storage devices. Management and modeling programs may be used to manage these complex computing environments.

Storage Management Initiative Specification (SMI-S)/Bluefin, and Common Information Model (CIM) technologies, are widely used for managing storage devices and storage environments. The SMI-S is a standard management interface that allows different classes of hardware and software products to interoperate for monitoring and controlling resources. For example, the SMI-S permits storage management systems to identify, classify, monitor, and control physical and logical resources in a SAN. The SMI-S is based on CIM, and Web-Based Enterprise Management (WBEM)

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Bluefin Specification was developed to the present version, which is defined in the SMI-S Public Review Draft SMI-S Version 1.0. As a consequence of the rapid evolution, ITSRM 1.2 and the IBM ESS CIM Server for the IBM Enterprise Storage Server (ESS) support a version of the LUN Masking and Mapping Profile that was "captured" between the Profile's Bluefin definition and the Profile's SMI-S definition. (A CIM Server is a CIMOM and a set of CIM Providers.) Consequently, the IBM ESS CIM Server uses a different masking algorithm than described in the latest SMI-S/Bluefin specification, and different associations are made to map a storage LUN to a particular host. These differences can result in complexity and difficulties.

Although the SMI-S/Bluefin describes several methods for assigning a LUN from a disk storage system to a host or Hardware/Account, or for adding a LUN to a disk storage system, the complexity of the CIM object model makes it difficult for a CIM Client application to simply request storage space in a disk storage system.

For example, the SMI-S/Bluefin describes how to add a LUN to a disk storage system, wherein the method CreateOrModifyElementFromStoragePool() in the StorageConfigurationService object is used to create a LUN (or storage volume) given the LUN type, the size of the LUN, a storage pool CIM object path and the StorageConfigurationService. The resulting LUN can then be assigned to a host or several hosts available to the disk storage system. Details of the CreateOrModifyElementFromStoragePool() method are as follows:

```
CreateOrModifyElementFromStoragePool
uint32 CreateOrModifyElementFromStoragePool
{
    [in, Values {"Unknown", "Reserved", "StorageVolume", "StorageExtent",
    "DMTF_Reserved", "Vendor_Specific"}],
    ValueMap {"0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "A", "B", "C", "D", "E", "F"}] uint16 ElementType;
    [out] CIM_StorageSetting ref Job;
    [in, out] uint64 Size;
    [in] CIM_StoragePool ref InPool;
    [out, in] CIM_LogicalElement ref Element;
};
```

architecture. CIM is a model for describing management information, and WBEM is an architecture for using Internet technologies to manage systems and networks. The SMI-S uses CIM to define objects that represent storage entities such as Logical Unit Numbers (LUNs), Disks, Storage Subsystems, Switches, and host Computer Systems. (In many, but not all cases, the term "volume" is interchangeable with the term "LUN".) CIM also defines the associations that may or may not exist between these objects, such as a Disk being associated to a Storage Subsystem because it physically resides in the Storage Subsystem.

The CIM Objects mentioned above may be managed by a CIM Object Manager (CIMOM). A storage management software application, such as IBM Tivoli Storage Resource Manager (ITSRM), can use a CIM Client to connect to a CIMOM, to retrieve information about the storage entities that the CIMOM manages, and also to perform active configuration of the storage entities. Storage management software that uses a CIM Client may be called a CIM Client Application.

The SMI-S/Bluefin describes how a current storage LUN is mapped. However, the Logical Unit Number (LUN) Masking and Mapping Profile evolved rapidly from the time that the

This method allows an Element of a type specified by the enumeration ElementType to be created from the input Storage Pool. The parameters are as follows: ElementType: This enumeration specifies what type of object to create. At present, only StorageVolume and StorageExtents are defined as values, however other values (such as share) could be added in future.

Job: Reference to the completed job.

Goal: This is the Service Level that the Storage Volume is expected to provide. The setting must be a subset of the Capabilities available from the parent Storage Pool. Goal may be a null value in which case the default setting for the pool will be used.

Size: As an input this is the desired size of the Storage Volume. If it is not possible to create a volume of the desired size, a return code of "Size not supported" will be returned with size set to the nearest supported size.

InPool: This is a reference to a source Storage Pool.

Element: If a reference is passed in, then that Element is modified, otherwise this is a reference to the created element.

Generally, there is substantial complexity when using the CIM object model to create a LUN. For example, the Stor-



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the mid level abstraction may then take the total amount of space desired and select a suitable storage pool from the storage pool list. Once a storage pool list is selected, the amount of LUNs may be created one at a time using an interface to a CIM Client utility that invokes the CreateOrModifyElementFromStoragePool() method.

Thus, a higher level client does not need to understand all CIM objects required for LUN creation; parameters used by the higher level client to create LUNs are simplified; retryable errors do not have to be handled by the higher level client; and the higher level client may make multiple creation requests. Additionally, many examples of the invention will benefit developers working on a CIM Client Application because these examples reduce development time and improve code maintainability, facilitating faster time to market for a CIM Client Application product.

Examples of the invention may include one or more of the following operations: A request to create a certain amount of LUNs on a supported disk storage system for a certain specified size is passed to a CIM Client Application. A list of storage pools in which to attempt creation of the LUNs is then generated. A mid level layer is then called to create a certain amount of LUNs for a specified size given a list of storage pools. The size may be calculated based on an optional constraint that may be passed by the caller, and based on a constraint of the disk storage system. For example, an IBM Enterprise Storage Server (ESS) has an incremental constraint of creating LUNs at a size of 100 million bytes. A storage pool with available space may then be selected to create the LUNs. If necessary, the size to create each LUN is converted from megabytes to million bytes. For example, the IBM ESS creates LUNs in terms where 1 Mb is actually 1,000,000 bytes and not 1,048,576 bytes. Using the selected storage pool, the StorageConfigurationService of the disk storage system is retrieved using the association of all ComputerSystem objects to the selected StoragePool object, and the ComputerSystem object representing the disk storage system is then associated with the StorageConfigurationService. The ElementType may be set to either a StorageVolume or StorageExtent, depending on what is allowed by the disk storage system vendor. For example, the IBM ESS supports the ElementType of "Z" or StorageVolume. The size is set to the calculated size in the units supported by the disk storage system vendor. For example, the IBM ESS supports the size to be passed in terms of million byte increments. The storage setting may be selected based on the desired redundancy level, but may be ignored in favor of what the selected storage pool has set. The storage pool is set to the selected storage pool. The CreateOrModifyElementFromStoragePool() method may then be invoked with these parameters through the retrieved StorageConfigurationService object. If an error occurs, and if there are storage pools wherein the storage creation has not been attempted, the remainder of the storage pool list may be exhausted until the LUNs are created or until no more storage pools are left to attempt a creation request. Each error may be recorded for future referral. If the request is not satisfied, no storage volume objects are returned, which indicates that the create request failed. If the request was satisfied, a list of storage volume objects filled with information obtained from a storage object retrieval tool may be returned. This information can then be used to make the necessary assignments from the LUNs to the host.

The following is an example of a higher level method call that may be used to implement some examples of the invention:

createWithinPoolList()—Given a list of storage pools, the number of LUNs to create, the desired LUN size to create, return newly allocated LUNs from the given storage pools. Some examples of the invention provide one or more of the following benefits: Code for CIM Client Applications for creating LUNs in a CIMOM is simplified. A CIM Client Application's knowledge may be limited to access parameters. A request to create LUNs does not require an understanding of disk storage system constraints. Tracking errors for each failure on each storage pool is not necessary. A CIM Client Application is permitted to request the creation of LUNs given a list of storage pools. A single list can be passed to create the desired amount and size of LUNs, rather than attempting creation on each available storage pool. Errors that do occur will not necessarily fail a request, but all errors may be recorded if debugging is required. Generally many examples of the invention permit creating LUNs faster, simpler, and with fewer resources, than would otherwise be required.

III. Other Embodiments

While the foregoing disclosure shows a number of illustrative embodiments of the invention, it will be apparent to those skilled in the art that various changes and modifications can be made herein without departing from the scope of the invention as defined by the appended claims. Furthermore, although elements of the invention may be described or claimed in the singular, the plural is contemplated unless limitation to the singular is explicitly stated.

What is claimed is:

1. A computer storage medium tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform a method for assigning storage in a SAN to a host, the method comprising the following operations:
 - retrieving a list of paths to a model LUN, wherein the model LUN is a LUN anywhere in the SAN that can be connected to the host;
 - receiving a request for storage, wherein the request includes the list of paths;
 - retrieving a HardwareAccount, Controller, and an AccessAuthorization object for a first path in the list of paths;
 - making an attach device request to a CIMOM for a first available LUN, using the Controller and the AccessAuthorization object;
 - determining if the first available LUN was successfully attached, and if so, recording the assignment as successful; and if not, rolling back all assignments for the first available LUN that were previously recorded as successful;
 - wherein the request further includes a requested amount of storage space; and
 - wherein if it is determined that the first available LUN was successfully attached on the first path, the operations further comprises repeating the retrieving, making, and determining operations for the first available LUN for a second path in the list of paths.
2. The computer storage medium of claim 1, wherein the request further comprises a requested number of LUNs.
3. The computer storage medium of claim 1, wherein if it is determined that the first available LUN was successfully attached using each path in the list of paths, then the operations further comprise sending assignment information to the host.

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United States Patent

Issue Date:

Current U.S. Class:

XI

July 31, 1790

423/208

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The United States.

To all to whom these Presents shall come. Greeting.

Whereas Samuel Hopkins of the City of Philadelphia and State of Pennsylvania hath discovered an Improvement, not known or used before such Discovery, in the making of Pot ash and Pearl ash by a new Apparatus and Process; that is to say, in the making of Pearl ash 1st by burning the raw Ashes in a Furnace, 2^d by dissolving and boiling them when so burnt in Water, 3^d by drawing off and settling the ley, and 4th by boiling the ley into Salts which then are the true Pearl ash; and also in the making of Pot ash by fluxing the Pearl ash so made as aforesaid; which Operation of burning the raw Ashes in a Furnace, preparatory to their Dissolution and boiling in Water, is new, leaves little Residuum; and produces a much greater Quantity of Salt: These are therefore in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts", to grant to the said Samuel Hopkins, his Heirs, Administrators and Assigns, for the Term of fourteen Years, the sole and exclusive Right and Liberty of using, and vending to others the said Discovery, of burning the raw Ashes previous to their being dissolved and boiled in Water, according to the true Intent and meaning of the Act aforesaid. In Testimony whereof I have caused these Letters to be made patent, and the Seal of the United States to be hereunto affixed. Given under my Hand at the City of New York this thirty first Day of July in the Year of our Lord one thousand seven hundred & Ninety.

G. Washington

City of New York July 31st 1790. -

I do hereby certify, that the foregoing Letters patent were delivered to me in pursuance of the Act, entitled "An Act to promote the Progress of useful Arts"; that I have examined the same, and find them conformable to the said Act.

Edm: Randolph Attorney General for the United States -

X0000001
July 31, 1790

Prvý Dizajn USA

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United States Patent

D1

Issue Date:

November 9, 1842

Current U.S. Class:

D18/99

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Des. 1

George Bruce - New York.

Sellers Patent N^o 1, Dated November 9 1842.

The Schedule referred to in this Sellers Patent and making part of the same.

To all persons to whom these presents shall come.

Be it known, that I, George Bruce, of the City and County of New York, in the State of New York, have produced new and improved Printing Types by cutting the originals in steel from new and varied designs, impressing the steel into copper and thereby forming matrices, and from these matrices casting the Types, all these operations being performed in the way usual with Typefounders. I describe my new Types by the following technical names and numbers, which will be readily understood by the manufacturers of Types, and for greater ca-

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Wth Peter La Courtlyaw

&c. D. W. Bruce

Geo. Bruce

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(1 of 1)

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United States Patent

D55,000

Issue Date:

April 27, 1920

Current U.S. Class:

D14/184

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55,000.

DESIGN.
W. H. THOMMEN.
PHONOGRAPH CABINET.
APPLICATION FILED OCT. 24, 1919.

Patented Apr. 27, 1920.



INVENTOR
BY *W. H. Thommen*
W. H. Liber

Plant Patent

United States Patent

PP10,000

Lemon

August 12, 1997

Geranium plant named 'Lois'

Abstract

The cultivar is characterized by its distinctive multi-color presentation. Its strong growth habit and continuous flowering provides for superb cuttings and also for quick recovery following wet weather conditions. The blooms exhibit relatively longer post-harvest production compared to that of other Regal varieties.

Inventors: **Lemon; David** (Lompoc, CA)

Assignee: **John Bodger and Sons Company** (South El Monte, CA)

Appl. No.: **08/571,168**

Filed: **December 12, 1995**

Current U.S. Class:

PLT/331

Current International Class:

A01H 005/00 ()

Field of Search:

Plt/87.12

References Cited [Referenced By](#)

U.S. Patent Documents

[PP8909](#)

September 1994

Walters

Primary Examiner: Locker, Howard J.

Attorney: Agent or Firm: Fulviter Dutton Lee and Utech, LLC

Plant Patent z TIFF

US00PP10000P

United States Patent [19]
Lemon

[11] **Patent Number:** **Plant 10,000**
[45] **Date of Patent:** **Aug. 12, 1997**

[54] **GERANIUM PLANT NAMED 'LOIS'**

[75] **Inventor:** **David Lemon**, Lompoc, Calif.

[73] **Assignee:** **John Bodger and Sons Company**,
South El Monte, Calif.

[21] **Appl. No.:** **571,168**

[22] **Filed:** **Dec. 12, 1995**

[51] **Int. Cl.⁶** **A01H 5/00**

[52] **U.S. Cl.** **Plt./87.12**

[58] **Field of Search** **Plt./87.12**

[56] **References Cited**

U.S. PATENT DOCUMENTS

P.P. 8,909 9/1994 Walters Plt./87.12

1

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct cul-

Primary Examiner—Howard J. Locker

Attorney, Agent, or Firm—Fulwider Patton Lee and Utecht,
LLP

[57] **ABSTRACT**

The cultivar is characterized by its distinctive multi-color presentation. Its strong growth habit and continuous flowering provides for superb cuttings and also for quick recovery following wet weather conditions. The blooms exhibit relatively longer post-harvest production compared to that of other Regal varieties.

1 Drawing Sheet

2

Form: Upright mound.

Height.—23.0–25.0 cm above the media surface.

Rýchly prieskum

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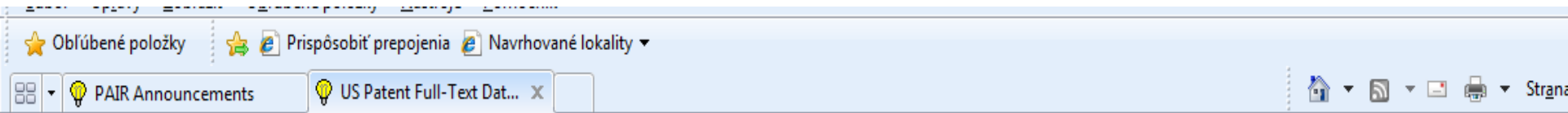
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ABST/"collapsible bicycle" AND ACLM/"collapsible bicycle": 16 patents.
Hits 1 through 16 out of 16

PAT. NO.	Title
1 7,306,249	 Folding collapsible bicycle
2 7,232,144	 Folding bicycle
3 7,156,409	 Collapsible bicycle
4 5,836,602	 Collapsible bicycle
5 5,785,338	 Collapsible bicycle
6 5,590,895	 Collapsible bicycle frame
7 5,385,246	 Collapsible bicycle stand
8 5,337,609	 Handlebar structure for a collapsible bicycle
9 5,320,227	 Bicycle stand
10 5,078,276	 Bicycle hanger
11 5,069,468	 Collapsible bicycle
12 5,020,814	 Collapsible bicycle trailer
13 4,718,688	 Collapsible bicycles with triangular frames

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(1 of 16)

United States Patent

7,306,249

Kwok, et al.

December 11, 2007

Folding collapsible bicycle

Abstract

A folding *collapsible bicycle*, which includes a front connecting bar pivoted to the bicycle frame and locked by a lock to hold a front fork, a retractable fork tube hinged to the front fork and locked thereto with a lock screw to hold two collapsible handlebars, and a seat pillar holder pivoted to the bicycle frame at the top and locked thereto with a lock to support a seat pillar and a saddle on the seat pillar.

Inventors: **Kwok; Wang-On** (Pat Heung, Yuen Long, N T., **HK**), **Lo; Pui Yee Noel** (Pat Heung, Yuen Long, N T., **HK**)

Appl. No.: **11/223,995**

Filed: **September 13, 2005**

Analýza majitel'a - Toyota

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AN/toyota

PAT. NO. Title

- 1 [7,957,890](#)  [Valve control device and method for internal combustion engine](#)
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- 3 [7,957,881](#)  [Vehicle and method of controlling driving force for the vehicle based on detected slip of the drive wheel](#)
- 4 [7,957,876](#)  [Deceleration control apparatus and method for vehicle](#)
- 5 [7,957,872](#)  [Shift control apparatus of a continuously variable transmission and method of determining whether shift control apparatus is operating normal](#)
- 6 [7,957,867](#)  [Steering system of vehicle](#)
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- 8 [7,957,856](#)  [Control device and control method of hybrid vehicle](#)
- 9 [7,957,835](#)  [Legged robot and control method thereof](#)
- 10 [7,957,566](#)  [Eyelid detection apparatus, eyelid detection method and program therefor](#)
- 11 [7,956,758](#)  [Thermal stimulation apparatus for vehicles](#)
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- 2 [D626,040](#)  [Automobile and toy replica thereof](#)
- 3 [D626,039](#)  [Front portion of an automobile](#)
- 4 [D626,034](#)  [Motor vehicle and/or toy replica thereof](#)
- 5 [7,822,536](#)  [Start-up control device for internal combustion engine](#)
- 6 [7,822,535](#)  [Internal combustion engine stop controller and stop control method](#)
- 7 [7,822,534](#)  [Fuel supply device and fuel supply method for internal combustion engine](#)
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- 1 [20100095795](#) [Transmission](#)
- 2 [20070079607](#) [Exhaust purifying apparatus for internal combustion engine](#)

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United States Patent Application

20100095795

Kind Code

A1

Kato; Naoki ; et al.

April 22, 2010

Transmission

Abstract

A transmission includes a case having an internal space; a first partition wall which is provided in the case and forms a boundary between a first chamber which is arranged in the case and houses a rotating object, and a second chamber which is arranged in the case, is connected to the first chamber, and maintains equal pressure between the first chamber and outside air; a second partition wall which is provided in the case and forms a boundary between the second chamber and a third chamber which is arranged in the case and stores fluid below the second chamber; and a third partition wall which is provided in the case and forms a boundary between the first chamber and the third chamber. A first hole and a second hole are formed in that order from the first chamber side in the second partition wall.

Inventors: **Kato; Naoki**; (*Aichi-gun, JP*) ; **Ikemura; Masashi**; (*Toyota-shi, JP*) ; **Ishiwada; Takeshi**; (*Toyota-shi, JP*) ; **Nakamura; Kazuaki**; (*Toyota-shi, JP*) ; **Monji; Fuminori**; (*Toyota-shi, JP*) ; **Fujii; Tadanori**; (*Toyota-shi, JP*) ; **Ishiguro; Tatuya**; (*Toyota-shi, JP*) ; **Ogasawara; Hiroyuki**; (*Anjo-shi, JP*) ; **Goshima; Hiroki**; (*Nukata-gun, JP*)

Correspondence **OLIFF & BERRIDGE, PLC**

Address: **P.O. BOX 320850**

ALEXANDRIA**VA****22320-4850****US**

Assignee: **TOYOTA JIDOSHA KABUSHIKI KAISHA**

TOYOTA-SHI**JP**



US 20100095795A1

(19) **United States**(12) **Patent Application Publication**
Kato et al.(10) **Pub. No.: US 2010/0095795 A1**(43) **Pub. Date: Apr. 22, 2010**(54) **TRANSMISSION**(75) Inventors: **Naoki Kato**, Aichi-gun (JP);
Masashi Ikemura, Toyota-shi (JP);
Takeshi Ishiwada, Toyota-shi (JP);
Kazuaki Nakamura, Toyota-shi
(JP); **Fuminori Monji**, Toyota-shi
(JP); **Tadanori Fujii**, Toyota-shi
(JP); **Tatuya Ishiguro**, Toyota-shi
(JP); **Hiroyuki Ogasawara**,
Anjo-shi (JP); **Hiroki Goshima**,
Nukata-gun (JP)

Correspondence Address:

OLIFF & BERRIDGE, PLC**P.O. BOX 320850****ALEXANDRIA, VA 22320-4850 (US)**(73) Assignees: **TOYOTA JIDOSHA**
KABUSHIKI KAISHA,
TOYOTA-SHI (JP); **AISIN AW**
CO., LTD., ANJO-SHI (JP)(21) Appl. No.: **12/461,949**(22) Filed: **Aug. 20, 2009**(30) **Foreign Application Priority Data**

Oct. 22, 2008 (JP) 2008-271567

Publication Classification(51) **Int. Cl.**
F16H 59/04 (2006.01)
F16H 57/02 (2006.01)
F16C 1/10 (2006.01)
(52) **U.S. Cl.** **74/473.15; 74/606 R; 74/473.36**
(57) **ABSTRACT**

A transmission includes a case having an internal space; a first partition wall which is provided in the case and forms a boundary between a first chamber which is arranged in the case and houses a rotating object, and a second chamber which is arranged in the case, is connected to the first chamber, and maintains equal pressure between the first chamber and outside air; a second partition wall which is provided in the case and forms a boundary between the second chamber and a third chamber which is arranged in the case and stores fluid below the second chamber; and a third partition wall which is provided in the case and forms a boundary between the first chamber and the third chamber. A first hole and a second hole are formed in that order from the first chamber side in the second partition wall.

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Results of Search in AppFT Database for:
ACLM/"collapsible bicycle" AND ABST/"collapsible bicycle": 10 applications.
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Refine Search ACLM/"collapsible bicycle" AND ABST/"collapsible bicycle"

PUB. APP. NO.	Title
1 20100148467	Collapsible Bicycle
2 20100066054	COLLAPSIBLE BICYCLE
3 20080303243	Collapsible bicycle frame
4 20080185812	Collapsible bicycle
5 20070284842	COLLAPSIBLE BICYCLE TRAILER
6 20070187922	Self powered collapsible bicycle
7 20070063478	Folding collapsible bicycle
8 20070007744	Folding bicycle
9 20060244237	COLLAPSIBLE BICYCLE
10 20060170186	Collapsible bicycle

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Collapsible bicycle frame

Abstract

Collapsible bicycle frame with an elongate tubular rigid seat post holding member, an elongate tubular rigid front fork holding member and an elongate tubular first rear fork and crank holding member. A slidable clevis joint holding the rear fork holding member to the front fork holding member. A clevis joint holds the seat post holding member to the front fork holding member. A clevis joint holds the lower end of the seat post holding member to a second rear fork member. The first rear fork holding member includes a standard crank holding aperture. The front fork holding member terminates at its top most point in a standard handle bar receiving aperture. The seat post holding member includes a lockable tubular extension member that can slidably retain a standard bicycle seat post.

Inventors: Ying; Francis; (Walnut, CA)
Correspondence FRANCIS YING
Address: 20901 NORTHVIEW DR.
Walnut
CA
91789
US

Serial No.: 811006
Series Code: 11
Filed: June 8, 2007

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Application Number:	12/014,954	Customer Number:	-
Filing or 371 (c) Date:	01-16-2008	Status:	Patented Case
Application Type:	Utility	Status Date:	05-18-2011
Examiner Name:	ARTHUR JEANGLAUDE, GERTRUDE	Location: 	ELECTRONIC
Group Art Unit:	3661	Location Date:	-
Confirmation Number:	1507	Earliest Publication No:	US 2009-0182474 A1
Attorney Docket Number:	GP-309365-PTT-CD	Earliest Publication Date:	07-16-2009
Class / Subclass:	701/053	Patent Number:	7,957,870
First Named Inventor:	Craig S. Ross , Ypsilanti, MI (US)	Issue Date of Patent:	06-07-2011

Title of Invention: TORQUE DISTRIBUTION SYSTEM FOR A VEHICLE

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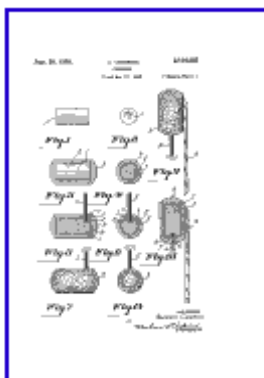
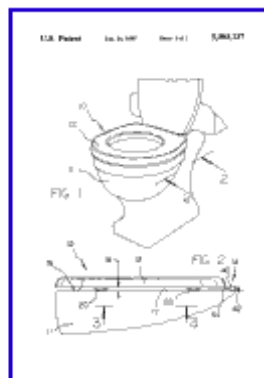
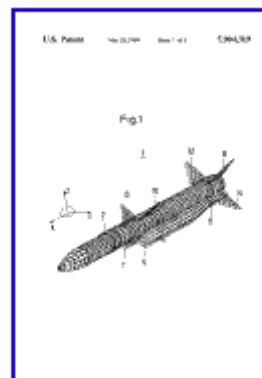
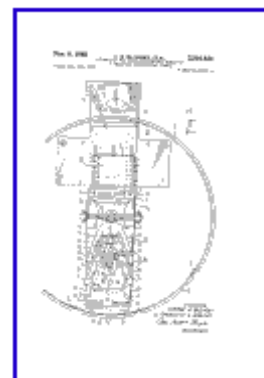
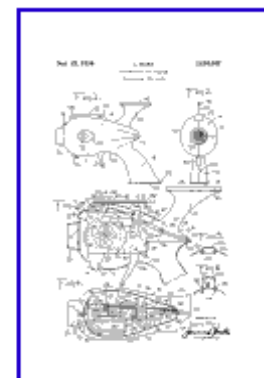
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SUBMERSIBLE VESSEL TOB NAVIGATION OTDEB ICE SIMON LAKE



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Patent number: 1500000

Issue date: Jul 1, 1924

Patented July 1, 1924.

1,500,000

UNITED STATES PATENT OFFICE.

SIMON LAKE, OF MILFORD, CONNECTICUT.

SUBMERSIBLE VESSEL FOR NAVIGATION UNDER ICE.

Application filed September 10, 1920. Serial No. 409,371.

To all whom it may concern:

Be it known that I, SIMON LAKE, a citizen of the United States, residing at Milford, in the county of New Haven and State of Connecticut, have invented a certain new and useful Improvement in Submersible Vessels for Navigation Under Ice, of which the following is a full, clear, and exact description.

This invention relates broadly to submarine or submersible vessels, and more particularly to such vessels adapted for navigation under fields of ice.

One object of the invention is to provide a submersible cargo-carrying vessel, suitable for transportation of goods in extreme northern latitudes where, for a large portion of the year, the water is covered with a sheet of ice of such thickness and strength as to make navigation with ordinary surface vessels impossible.

It is obvious that ice may be more easily broken by pressure applied from beneath than from above as is the case in the use of surface vessels, because the air above offers less resistance than the water and, therefore, another object of the invention is to provide a vessel of the type above mentioned with means whereby in addition to its ability to travel under ice, it is capable of rising to the surface and crushing its way through ice of moderate thickness but of such thick-

the vessel taken in the plane of line 4—4, Fig. 3 and showing in dotted lines the ice field being crushed. Fig. 5 is a fragmentary sectional elevation taken in the plane of line 5—5, Fig. 3, and showing the general plow-like surface contour of the ice crushing plows.

The vessel comprises a hull 1 provided with a superstructure 2 having extending from it fore and aft the plows 3 and provided slightly forward of its amidships portion with a telescoping steersman's station and air intake 4, of such shape as to enable it to throw aside obstructions, such as the ice crushed by the plows 3, and provided with observation ports 5 through which a view may be had in all directions.

In Fig. 1 the vessel is shown as provided with masts 6 for supporting the wireless apparatus 7, and it is also provided with the usual periscopes 8 and breathing tube 9 and a suitable railing 10, the masts, periscopes, breathing tube and railing being of telescoping or folding construction so as to be stowed out of the way when the vessel is to be navigated below the surface.

In operating submerged, the vessel will be given sufficient positive buoyancy to raise its superstructure through the ice indicated at 11, the forward or backward motion of the vessel bringing the plows in contact with



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that there will be no obstruction projecting above the upper deck of the vessel or its superstructure upon which such a projection on the under surface of the ice field could catch and foul, but the whole upper surface of the vessel will present a smooth series of sloping rises which will easily ride past any obstruction.

I have shown no specific means for telescoping or lowering and raising the steersman's station and other devices which are adapted to be lowered from and raised to their above-board position, as this forms no part of my invention and may be done in a number of well-known ways.

It is to be understood that I do not consider my invention as limited to the particular details of construction herein shown and described, as it is obvious that various changes may be made without departing from the spirit of the invention and the scope of the following claims.

What I claim is:—

1. In a submersible vessel, a hull, a superstructure mounted thereon and extending above the upper surface thereof, and a plow extending from said superstructure.

2. In a submersible vessel, a hull, a superstructure mounted thereon, and ice-breaking plows extending fore and aft from said superstructure.

and a steersman's station mounted in said superstructure.

4. In a submersible vessel, a hull, a deck, a superstructure extending above said deck, and a plow connected with said superstructure and extending forwardly thereof, the forward end of said plow being flush with said deck and its after end being flush with the upper surface of said superstructure.

5. In a submersible vessel, a hull, a deck, a superstructure mounted upon and extending above said deck and provided with plows extending fore and aft, the portions of said plows adjacent said superstructure being flush with the upper surface of said superstructure, said plows being inclined fore and aft from said superstructure to said deck.

6. In a submersible vessel, a hull, a superstructure provided with a steersman's station, a plow extending from said superstructure and adapted to break an ice sheet covering the water navigated, said steersman's station being of substantially cigar-shape and adapted to turn aside ice broken by said plow to facilitate the passage of the vessel through the thus broken ice.

7. In a submersible vessel, a hull, a deck, and a plow rising above the plane of said deck and adapted to break ice covering the water to be navigated by said vessel.

In testimony whereof I have hereunto set

Prvý US patent

UNITED STATES PATENT OFFICE.

JOHN RUGGLES, OF THOMASTON, MAINE.

LOCOMOTIVE STEAM-ENGINE FOR RAIL AND OTHER ROADS.

Specification of Letters Patent No. 1, dated July 13, 1830.

To all whom it may concern:

Be it known that I, JOHN RUGGLES, of Thomaston, in the State of Maine, have invented a new and useful improvement or improvements on locomotive-engines used on railroads and common roads by which inclined planes and hills may be ascended and heavy loads drawn up the same with more facility and economy than heretofore, and by which the evil effects of frost, ice, snows, and mud on the rail causing the wheels to slide are obviated.

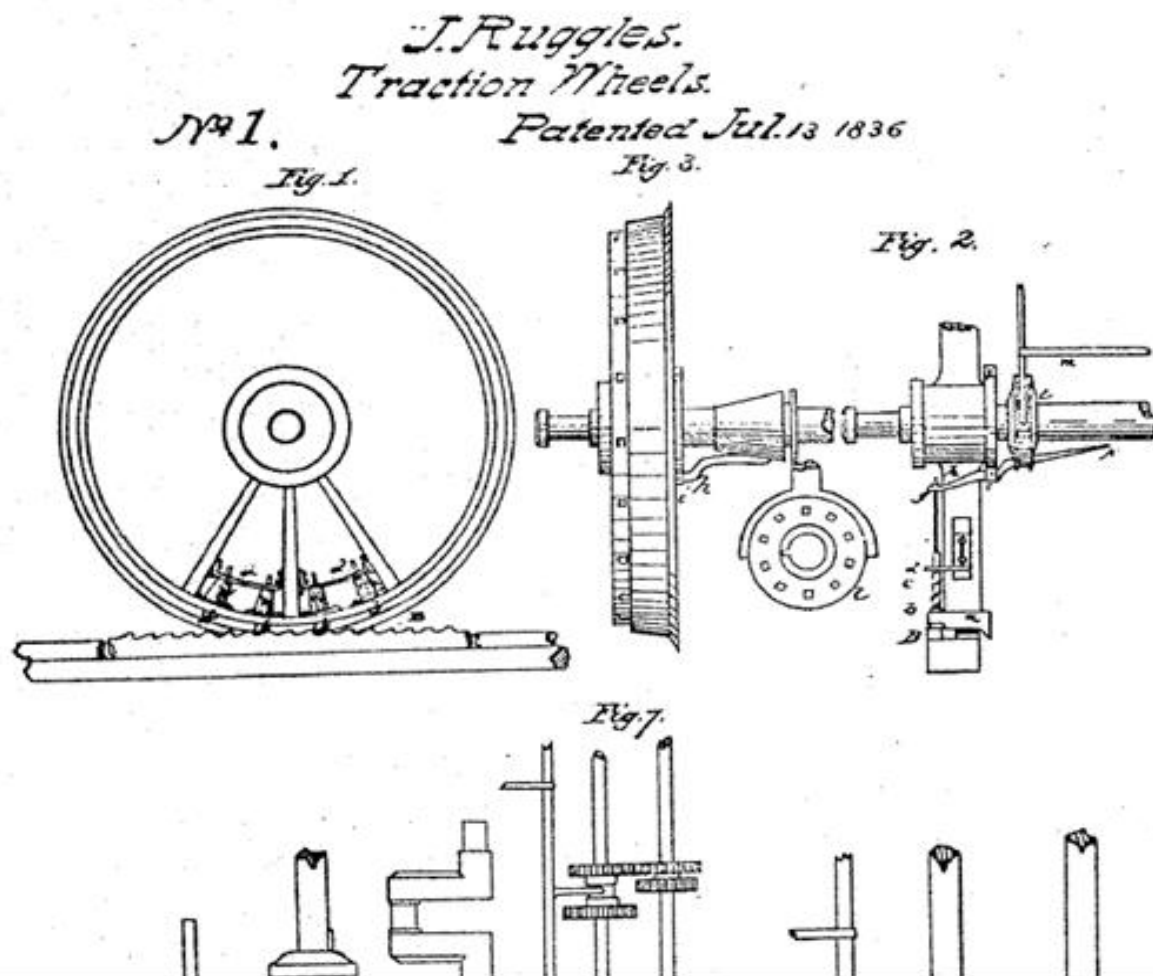
The obstacles met with in ascending inclined planes with locomotives drawing heavy loads after them, are the want of power in the engine, and the deficiency of adhesion to the rails, my improvements are designed to give a multiplied tractive power to the locomotive and to prevent the evil of the sliding of the wheels, and for these improvements I have made application for a patent to be issued according to the provisions of law. The following is a full and exact description of said improvements.

To prevent the wheels from sliding on the rails I make use of a check rail, and retreating cogs, the cogs are applied in the following manner, the wheels are made in the common form except that the rim is

their heads with sufficient force to project them outward easily when pressed up into their sockets, the springs react against the top of a cap, or case made to inclose, and protect them from mud or other impediments to their easy action, the case is in form of the section of a cone, and may be seen at W, W, Fig. 1, it is fitted, and screwed firmly to the rim, the upper end being supported by braces *d, d*, which are fastened to the spokes, attached to the cogs is a rod about half an inch diameter passing up through the spiral spring and freely through the top of the case, and brace projecting half an inch above. This rod guides the motion of the cogs the case may be about 2 inches high, and 2 inches broad at its base.

The check rail B, is placed on the outside of the bearing rails so far distance that the bearing part of the rim of the wheel cannot reach it when running close to its flange, the teeth are $\frac{3}{4}$ of an inch in depth, and such distances apart that the cogs will take against every 3d, 4th, or 5th tooth according as there may be a greater or less distance between the cogs. The check rail is fastened by nails, or otherwise to the sills at such elevation that the bottom of the teeth shall be level with the top of the bearing rail, the back part of the teeth are sloped.

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Collapsible bicycle
US Pat. 5785338 - Filed 11 Apr 1997 - Issued 28 Jul 1998
United States Patent m Chang US005785338A [ii] Patent Number: [45] Date of Patent: 5785338
Jul. 28, 1998 [54] COLLAPSIBLE BICYCLE ...
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Collapsible bicycle
US Pat. App 11701493 - Filed 2 Feb 2007
B62K 15/00 (2006.01) (52) US CI 280/278 (57) ABSTRACT A collapsible bicycle includes a handlebar, a tubular portion, a front wheel portion, a saddle portion ...
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Collapsible bicycle
US Pat. 5069468 - Filed 14 Aug 1990 - Issued 3 Dec 1991
... relates to a collapsible bicycle and in particular to one including a top tube, a seat tube pivotally connected with one end of the top tube, ...
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Collapsible Bicycle
US Pat. App 12598067 - Filed 6 Aug 2008
B62K 15/00 (2006.01) (52) US CI 280/278 (57) ABSTRACT The present invention provides a collapsible bicycle (1), having a frame (2), which is collapsible in ...
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4	20060244237	Collapsible bicycle.	USPTOApps	★★★★★
5	20060170186	Collapsible bicycle.	USPTOApps	★★★★★
6	GB2324071A	Collapsible bicycle.	UK-IPO	★★★★★
7	7156409	Collapsible bicycle.	USPTO	★★★★★
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10	5836602	Collapsible bicycle.	USPTO	★★★★★
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TITLE: Collapsible bicycle

Application Number	200880018092	Application Date	2008.08.06
Publication Number	101808886A	Publication Date	2010.08.18
Priority Information	2007/8/9 DE 102007037648.2		
International Classification	B62K15/00;B62K3/04;B62J7/04;B62K21/22		
Applicant(s) Name	Adp Engineering GmbH		
Address			
Inventor(s) Name	Hoerdum Martin;Bitsch Christian		
Patent Agency Code	11139	Patent Agent	sun haochen

Abstract

The present invention relates to a collapsible bicycle (1) having a frame (2) that can be folded in the plane thereof, the frame (2) having: an upper frame bar (3) having an end (10) on the front side of the collapsible bicycle on which a front wheel fork (12) is supported for mounting a front wheel (13); a saddle bar (5) having an end (38) for mounting a saddle tube (39); a lever (6) connected in a jointed fashion to an end (37) of the upper frame bar (3) on the rear side of the collapsible bicycle at a first pivot point (50) and at the end (38) of the saddle bar (5) for mounting the saddle tube (39) at a second pivot point (49), the lever (6) being disposed on the front side of the collapsible bicycle relative to the saddle bar (5) in a riding position of the collapsible bicycle (1); and a lower frame bar (4) connected in a jointed fashion on the end (10) of the upper frame bar (3) on the front side of the collapsible bicycle at a third pivot point (18) and on one end (38a) of the saddle bar (5) opposite the end (38) for mounting the saddle tube (39) at a fourth pivot point (24), the first, second, third, and fourth pivot points (50; 49; 18; 24) being disposed relative to each other such that the end (38) of the saddle bar (5) for mounting the saddle tube (39) can be pivoted toward (117) the upper frame bar (3) or away from (119) the upper frame bar in order to move the collapsible bicycle (1) from the riding position to the pushing position or from the pushing position to the riding position.

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Application: 200880018092

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Claim

1. a folding bicycle includes that the frame can be folding along self plane, and said frame includes:

The head pipe, said head pipe side before the bicycle holds establishes the fork, and said fork holds establishes the front wheel;

The fork holds the pipe of choosing a place to give a banquet including one end on the back;

Action bars and bicycle rear side heading joint in the first joint department that lies in said head pipe, and establish with the appearance and pitch a heading joint in second joint department on said seat pipe back wherein lie in when the folding bicycle and ride when taking advantage of the position, and said action bars is gone up to pitch corresponding to the back and is installed in the bicycle front side; Just

Low tube and the bicycle front side heading joint that lies in head pipe be in third joint department, and with for pitching a heading joint in fourth joint department on said seat pipe one end back;

Wherein first joint department, second joint department, third joint department and the punishment of fourth joint do not makes the folding bicycle take advantage of translocation to sliding position or take advantage of the position to riding by the translocation of sliding by riding, holds to pitch one end on the said back of the pipe of choosing a place to give a banquet and can be respectively rotate along the orientation or the orientation of keeping away from the head pipe.

2. folding bicycle according to claim 1 characterized in, back fork holds establishes the rear wheel, and with bicycle rear side heading joint in the 5th joint department that lies in the low tube, the rear wheel support with bicycle rear side heading joint in the 6th joint department that lies in the head pipe, and fit the 7th joint department with the rear wheel fork-joint; Wherein when hold the pipe of choosing a place to give a banquet go up after the fork respectively towards the head pipe or keep away from that the orientation of head pipe is rotatory, first, second, third, fourth, the 5th, the 6th and the 7th joint department make the rear wheel can be respectively along the orientation rotation that moves

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Claim

12. the folding bicycle of claim 11 characterized in, said release handle, hook portion mutually support like same top dead center mechanism with the bolt.

13. 如权利要求11或12所述的折叠自行车, 其特征在于, 在第一转动方向上, 一个弹簧提供所述钩部一个预张力。

14. as claim 11 to 13 arbitrary said folding bicycles wherein, characterized in that said back is gone up the fork and is had the stop part, the connecting piece of release clashes into in first rotation direction in said stop part.

15. if aforementioned claim arbitrary said folding bicycle wherein characterized in that aforementioned folding bicycle has a hundle-bar, said hundle-bar includes fastener and two handle bodys, said fastener is installed said hundle-bar on the fork, and through the pivot, said handle body is installed in the fastener, and can take advantage of the position and take in between the position rotation and may take in between slide position and second and rotate between the position with first between riding.

16. the folding bicycle of claim 15 characterized in, each pivot includes half one on two bearings and coupling bar, and half one on a bearing is installed in the handle body, and half one on another bearing is installed in said fastener, and said coupling bar supports said pivot; Wherein riding and taking advantage of, sliding that first take in and / or during the second took in the position, half one on bearing was connected in order to reach friction formula and / or positive-going lock solid each other.

17. the folding bicycle of claim 16 characterized in, a centre gripping action bars includes said coupling bar, makes half one on aforementioned bearing bulldoze each other.

18., characterized in that half one on said bearing includes collecting part and the joggle piece that corresponds like 16 or 17 said folding bicycles of claim.

19. 如权利要求16至18其中任一所述的折叠自行车, 其特征在于, 设于前述把手管体的轴承半部利用万向接头

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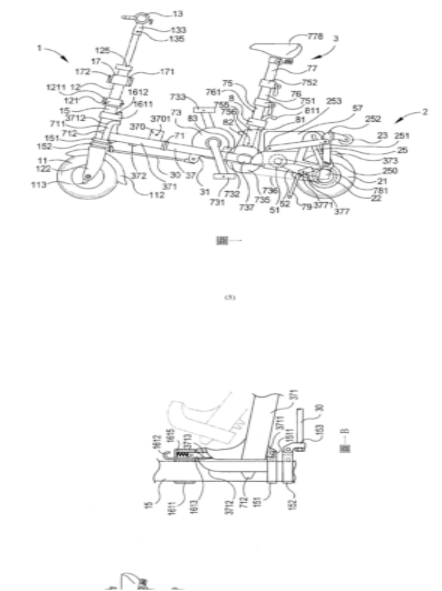
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Patent/Publication Number	589266
Title	Collapsible bicycle
Issued/Publication Date	2004/06/01
Application Date	2003/05/05
Application Number	092112235
Certification Number	204279
IPC	B62K-015/00
Inventor	ZHUANG, DA-XING TW
Applicant	ZHUANG, DA-XINGTW
Abstract	Disclosed is a collapsible bicycle , including: a front wheel assembly, a rear wheel assembly, and a seat assembly. The rear wheel assembly includes a main frame extending from the rear axle and capable of being quickly and precisely fastened to or detached from the front wheel assembly. A link is pivoted between the front wheel assembly and the main frame to prevent the front wheel assembly from separating the rear wheel assembly. When the main frame is detached from the front wheel assembly, the rear wheel assembly may be directed forwards in a parallel manner to be fastened to the sides of the front wheel assembly, subjecting the front and rear wheel assemblies in a side-by-side manner. The seat assembly may be folded to approach a location between the front and rear wheel assemblies, such that the three assemblies would assume a vertical configuration after being affixed in place. The rear wheel assembly may further be provided with rollers to turn the bicycle body into a stroller after collapsing. The assembled stroller may further be provided with a seat for riding, or a baby seat to serve as a baby stroller, or other accessories to allow various applications.

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Disclosed is a **collapsible bicycle**, including: a front wheel assembly, a rear wheel assembly, and a seat assembly. The rear wheel assembly includes a main frame extending from the rear axle and capable of being quickly and precisely fastened to or detached from the front wheel assembly. A link is pivoted between the front wheel assembly and the main frame to prevent the front wheel assembly from separating the rear wheel assembly. When the main frame is detached from the front wheel assembly, the rear wheel assembly may be directed forwards in a parallel manner to be fastened to the sides of the front wheel assembly, subjecting the front and rear wheel assemblies in a side-by-side manner. The seat assembly may be folded to approach a location between the front and rear wheel assemblies, such that the three assemblies would assume a vertical configuration after being affixed in place. The rear wheel assembly may further be provided with rollers to turn the bicycle body into a stroller after collapsing. The assembled stroller may further be provided with a seat for riding, or a baby seat to serve as a baby stroller, or other accessories to allow various applications.

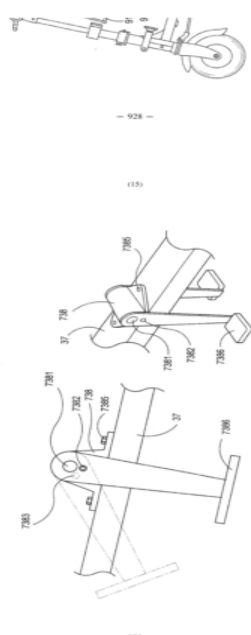
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Opposition filed	NO
Request for Invalidation filed	NO
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Patent revoked	
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S/N	App. / Pub. / Doc. No.	Title	Source Name	Relevance
1	20110127240	Automatic soldering machine.	USPTOApps	★★★★★
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9	20110049222	Quick-loading soldering apparatus.	USPTOApps	★★★★★
10	20110049220	Assembly for head welding.	USPTOApps	★★★★★
11	20110042146	Drill bit head for percussion drilling apparatus.	USPTOApps	★★★★★
12	20110036628	Solder bonding structure and soldering flux.	USPTOApps	★★★★★
13	20110024395	Electric soldering iron with automatic poweroff and method thereof.	USPTOApps	★★★★★
14	20110019062	Optical element assembly, image pickup module, and method for manufacturing electronic apparatus.	USPTOApps	★★★★★

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Štrukturovaný prieskum

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Ochranné známky

- Typy prieksumov
 - Rýchly
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Patents	Trademarks	Designs	SurfIP.com
34	4-2005-14329	mickey mouse	VNOIP
35	3087517	MICKEY MOUSE	JPO
36	4369689	- Dr. MOUSE	JPO
37	4-2003-04052	Standard wheel mouse	VNOIP
38	4-2003-07086	Micky mey , hãnh	VNOIP
39	4-1993-11129	Minnie mouse, hãnh	VNOIP
40	4-1993-11130	Mickey mouse, hãnh	VNOIP

Internet | Chránený režim: Zapnutý

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http://www.surfig.gov.sg/p24/JSP/SearchResult/TMVNOIP/GetTMVNOIPContent.jsp?intRecNum=2&HitListViewMode=Text&ref=&PHPSESSID=bi

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DETAIL VIEW

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INID	FIELD	CONTENT
(210)	APP. NUMBER	4-1993-11130
(220)	APP. DATE	12/03/1993
(300)	PRIORITY DATE	12/03/1993
(540)	TRADE MARK	MICKEY MOUSE, HẢ~nh
		
	TM TYPE	Normal
	TM COLOR	0
(511)	GOODS / SERVICES	14 Kim loáºi quẢ½ vẢ cẢyc há»Ep kim cá»Sa chẢ°ng, cẢyc sá°En phá°©m lẢ m tá» cẢyc kim loáºi nẢ y hoá°-c bá»□c bá°±ng cẢyc kim loáºi nẢ y khẢ°ng ná°±m trong cẢyc nhẢ°m khẢyc; Ả°á»° trang sá»©c; Ả°á»° kim hoẢ n, Ả°Ảj quẢ½; Ả°á»°ng há» vẢ dá»¥ng cá»¥ Ả°o thá»□i gian 16 Giá»¥y, cẢyc tẢ°ng vẢ cẢyc sá°En phá°©m lẢ m tá» cẢyc vá°t liá»Tu nẢ y khẢ°ng xá°p vẢ o cẢyc nhẢ°m khẢyc; á°¥n phá°©m; vá°t liá»Tu Ả°á»f Ả°°ng sẢych; á°¥nh chá»¥p; vẢfn phẢ°ng phá°©m; keo dẢjn dẢ°ng cho vẢfn phẢ°ng hoá°-c dẢ°ng cho gia Ả°Ả~nh; vá°t liá»Tu dẢ°ng cho cẢyc nghá»I sá»°; bá°t lẢ°ng; mẢiy chá» vẢ Ả°á»° dẢ°ng vẢfn phẢ°ng (khẢ°ng ká»f Ả°á»° gá»—); Ả°á»° dẢ°ng giá°£ng dá°iy vẢ há»□c tá°p (khẢ°ng ká»f mẢiy mẢ°c thiá°t bá» dẢ°ng cho má»¥c Ả°Ảch trẢ°n); chá°¥t dá°o Ả°á»f bao gẢ°i (khẢ°ng Ả°°E°á»£c xá°p trong nhá»°ng nhẢ°m khẢyc; bá i lẢj, chá» in, bá°£n in Ả°Ả°c. 24 Vá°£i vẢ hẢ°ng dá»tt khẢ°ng xá°p vẢ o cẢyc nhẢ°m khẢyc; khẢ°fn trá°£i bẢ n vẢ trá°£i gi°E°á»□ng. 25 Quá°Sn Ả°jo, giá°Sy dẢ°p vẢ Ả°á»° Ả°i chẢ°n, mẢ° nẢ°n vẢ Ả°á»° Ả°á»°Ả°s. 28 TrẢ° ch°£j, Ả°á»° ch°£j; dá»¥ng cá»¥ thá»f dá»¥c thá»f thao khẢ°ng xá°p vẢ o cẢyc nhẢ°m khẢyc; Ả°á»° trang hoẢ°ng cẢ°y noel.
(531)	VIENNA CLASS	03.05.07 03.05.24
(731) / (732)	APPLICANT / RIGHT HOLDER	DISNEY ENTERPRISES, INC. / DISNEY ENTERPRISES, INC.
	APPLICANT ADDRESS	500 SOUTH BUENA VISTA STREET BURBANK, CALIFORNIA 91521, U.S.A
	RIGHT HOLDER ADDRESS	500 SOUTH BUENA VISTA STREET BURBANK, CALIFORNIA 91521, U.S.A
	PREV. R. HOLDER	Holder name Holder address THE WALT DISNEY COMPANY 500 SOUTH BUENA VISTA STREET BURBANK, CALIFORNIA 91521, U.S.A
(111)	REG. NUMBER	4-0009347-000
	REG. DATE	11/10/1993
	REG. PUBLICATION	25/11/1993 68

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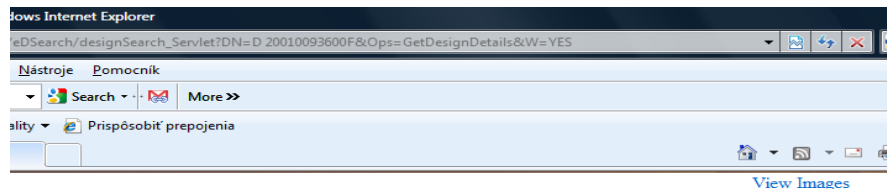
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4	D 20010060000H	---	 FRONT VIEW	IPOS
5	D 20010070100I	---		IPOS
6	D 20010093600F	---	 Front perspective view from above and one side	IPOS
7	D 20010093700B	---		IPOS

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Design Details

Design Number : D 2001/936/F
Applicant's Name : (1) UNILEVER PLC
Filing Date : 20/07/2001
Class / Sub-class Number : 09-01
Priority Date / Country : (1) 22/01/2001 / UNITED KINGDOM
Renewal Due Date : NA
Expiry Date : 22/01/2016
Status : Registered

Article(s) to which the Design Applies

A bottle

Applicant's Rights with respect to Design

By virtue of assignment.

Journal Number and Date

6/2001 01/11/2001

Statement of Novelty

The novelty of the design resides in the shape and configuration of the article as shown in the representations.

Disclaimer

Applicant's Details

1 Name : UNILEVER PLC
Address : UNILEVER HOUSE, BLACKFRIARS
LONDON, EC4P 4BQ
UNITED KINGDOM

Constitution Type : A PUBLIC LIMITED COMPANY
Country / Citizenship : UNITED KINGDOM
State of Incorporation :
Telephone Number :
Fax Number :

Agent/Address For Service

Code : AG1025I
Name : DREW & NAPIER LLC

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Applicant's Details

1 Name : UNILEVER PLC
Address : UNILEVER HOUSE, BLACKFRIARS
LONDON, EC4P 4BQ
UNITED KINGDOM

Constitution Type : A PUBLIC LIMITED COMPANY
Country / Citizenship : UNITED KINGDOM
State of Incorporation :
Telephone Number :
Fax Number :

Agent/Address For Service

Code : AG1025I
Name : DREW & NAPIER LLC
Address : 10 COLLYER QUAY
OCEAN FINANCIAL CENTER
#10-01
SINGAPORE 049315

Telephone Number : 531 2560/531 2566
Fax Number : 533 0694

Renewal Details

S/No.	Received on	Current Renewal Date	Next Renewal Date	Status	Agent Name
1	05/04/2006	22/01/2006	22/01/2011	Approved	DREW & NAPIER LLC
2	03/01/2011	22/01/2011	NA	Approved	DREW & NAPIER LLC

Subsequent Actions

Nil.