Informações sobre patentes
“Resources and Guidance”
Resources and Guidance

The following policies, procedures, guides, tools and manuals are associated with the patent process.

NOTE: The information below was correct at the time of original publication. Some information may no longer be applicable. For example, amendments may have been made to the rules of practice since the original date of a publication, there may have been a change in any fees indicated, and certain references to publications may no longer be valid. Wherever there is a reference to a statute or rule, please check carefully whether the statute or rule in force at the date of publication of the advice has since been amended.

- Patents Guidance
- Tools & Manuals
- Office of Patent Training (OPT) - Training Materials

Patents Guidance

- Notices: Recent Patent-Related pre-OG, OG & Post-OG
- Access to Published Patent Applications
- Application Data Sheet (ADS) Guide
- Business Methods Patents
- Disclosure Document Program
- General Information Concerning Patents [HTML] [PDF]
- Inventor Resources
- Types of Patents
  - Provisional Application for Patent
  - Non-Provisional (Utility) Patent Application Filing Guide
  - Guide to Filing a Design Patent Application
  - Plant Patent Application
  - Filing a new international application under the Patent Cooperation Treaty (PCT)
    - PCT Legal Administration
    - International Protection
Vídeo tutorial sobre busca preliminar de patentes
http://patft.uspto.gov
USPTO Patent Full-Text and Image Database

Data current through November 20, 2012.

Query [Help]

Examples:
- ttl/(tennis and (racquet or racket))
- isd/1/8/2002 and motorcycle
- in/newmar-julie

Select Years [Help]

1976 to present [full-text]

Search | Redefine

Patents from 1790 through 1975 are searchable only by Issue Date, Patent Number, and Current US Classification. When searching for specific numbers in the Patent Number field, patent numbers must be seven characters in length, excluding commas, which are optional.

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Quick Reference Sheet

This page contains links to information on how to use the US Patent Full Text Database Search Pages.

- Frequently-Asked Questions
  - Quick Reference Sheet [PDF]
  - Web Database History
- How to Use the Advanced Search Page
- How to Use the Quick Search Page
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- Tips on Field Searching
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- Database Contents
- State Code Table
- Country Code Table
- Stopwords
## FULL-TEXT (Manual Search)

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                            | ABST/“fuel injection”       |
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                            | m-d-yyyy or m/d/yyyy         |
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| Application Number        | APN/ maximum of 6 digits--0 fill  
                            | APN/001528                     |
| Application Type          | APT/code for type of application  
                            | APT/4  and club               |
| Application Type Codes    | 1 = Utility  
                            | 2 = Reissue                   
                            | 4 = Design                    
                            | 5 = Defensive Publication (T) 
                            | 6 = Statutory Invention Registration (H) |
| Assignee City             | AC/Alexandria  
                            | AC/“Falls Church”             |
| Assignee Country          | ACN/code  
                            | ACN/GB                        |
| Assignee Name             | AN/last-first-mi  
                            | AN/kurtz-robert-$             
                            | AN/“General Motors”           |
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ABST/ ((ANIMAL OR PET) AND (WATERING OR DRINKER) AND (HEAT$ OR FREEZING OR ANTIFREEZING))
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**Query [Help]**
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ABST/ ((ANIMAL OR PET) AND (WATERING OR DRINKER) AND (HEAT$ OR FREEZING OR ANTIFREEZING))
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**Examples:**
- ttl/(tennis and (racquet or racket))
- isd/1/8/2002 and motorcycle
- in/newmar-julie

**Select Years [Help]**
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1976 to present [full-text]
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**Search for Patents**
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patft.uspto.gov/netahtml/PTO/search-adv.htm
```
Selecione 3 a 4 documentos relevantes
All weather animal drinker

Abstract

An all weather *animal drinker* for horses in stalls of a stable or outside in pasture and/or for other animals inside of a barn or outside of a structure in an unprotected environment. The all weather *animal drinker* is effective to be used inside a stable or barn or outside in an area subject to all types of climatic elements so as to provide potable water to animals or poultry under extremely hot or severely cold weather conditions. The all weather *drinker* includes a plurality of wells or reservoirs for circulation of temperature controlled water therebetween by use of a *heating* element along with various plumbing connections to operate at temperatures as low as minus thirty degrees Fahrenheit.

Inventors: Wenstrand; Thomas William (Mt. Pleasant, IA)

Appl. No.: 10/166,353

Filed: November 27, 2001

Current U.S. Class: 119/73

Current International Class: A01K 7/00 (20060101); A01K 7/02 (20060101); A01K 007/02 (20060101)

Field of Search: 119/73,77-80
Selezione 3 a 4 documentos relevantes
Anote as classificações
Selezione 3 a 4 documentos relevantes
Freeze resistant animal watering installation

Abstract

An animal watering unit includes a cylindrical tank which is closed at the bottom and buried on end with its open top near ground level. Water is supplied to the tank through supply piping controlled by a float operated valve. An insulated disk serves as a cover for the tank to inhibit heat loss through the top and also as a float which controls the float valve through an adjustable chain linkage. Incoming water is discharged into the tank in a swirling pattern at the bottom. An insulated collar surrounds the upper portion of the tank near the ground surface. This construction takes advantage of the subsurface ground heat to maintain the water temperature above freezing without the need for an electric heater or other type of heater.

Inventors: Ketterlin; William S. (Columbia, MO), Jurgensmeyer; Robert
Appl. No.: 07/434,337
Filed: November 13, 1989

Current U.S. Class: 119/73
Current International Class: A01K 7/02 (20060101); A01K 7/00 (20060101); A01K 007/04 (20100101)
Field of Search: 119/73,75,78
A. Access Classification Info by Class/Subclass HELP
1. Enter a US Patent Classification...
   Ex.: 119/73

2. Select what you want...
   - Class Schedule (HTML)
   - Printable Version of Class Schedule (PDF)
   - Class Definition (HTML)
   - Printable Version of Class Definition (PDF)
   - US-to-IPC8 Concordance (HTML)
   - US-to-IPC8 Concordance (PDF)
   - US-to-Locarno Concordance

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B. Classification Information
1. Index to the U.S. Patent Classification System (Preface)

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2. Classification Orders
3. Classification Orders Index
4. Classes Under Reclass
5. Classes Within the U.S. Classification System (Arranged by Related Subjects)
6. Classes Arranged Numerically With Art Unit and Search Room Locations
7. Classes Arranged in Alphabetical Order
8. Classes Arranged by Art Unit
9. Information on E-Subclasses

C. Search USA.Gov (General Search and Advanced Search)
1. Click the Search USA.gov logo below to initiate a general search at USA.gov.

2. Click the Advanced Search USA.gov link below to initiate an advanced search at USA.gov.

Ex.: 119/73

Também índice de classificações e buscas por termos, etc.
AQUATIC ANIMAL CULTURING

- Handling and transportation
  - Including vehicle
  - Fish transportation
- Crustacean culturing
  - Mating, spawning, and hatching
  - With separating means
- Habitat
  - Offshore
  - Individual habitat
  - With feeding
    - Habitat with recirculation and filter means
    - Feeding method
    - Separation or harvest
    - Preserving or storing
  - Fish cultivating
    - Live fish sorting or grading
    - Spawning, hatching, and early development
      - Fish incubator or hatching tray
      - Fish diverter or barrier
      - Electric type
    - Artificial reef or habitat
      - With tire component
      - Floating fish rearing assembly
    - Tank array
    - Sequential or stepwise tank array
    - Fish enclosure - recirculating type
      - With biological filter
      - Fish enclosure - nonrecirculating type
Cada termo tem hyperlink para explicação detalhada e recomendações de classes adicionais

“...” subclasse de “..”
“..” subclasse de “.”
“.” subclasse de “NEGRITO”
CLASS 119, ANIMAL HUSBANDRY

72 WATERING OR LIQUID FEED DEVICE: This subclass is indented under the class definition. Inventions not otherwise classifiable especially designed for supplying animals with drink. This subclass and the indented subclasses also include those devices designed for supplying liquid-food, such as buttermilk, etc., as well as structures equally adapted to use as a feeding or watering device.

SEE OR SEARCH THIS CLASS, SUBCLASS:

51.01+, for a feeding device used to supply nourishment to an animal wherein the nourishment, if in a flowable form, has viscosity characteristics significantly different from water.

51.5, for a feeding device combined with a watering device.

69.5, for a birdbath.

73 Temperature-controlling: This subclass is indented under subclass 72. Water holding devices for supplying stock involving a trough or the combination of a barometric fountain or other means of constant supply and a trough with means to prevent the freezing of the water or to regulate the temperature for other purposes.

SEE OR SEARCH CLASS:

106, Compositions: Coating or Plastic, subclasses 601+, 605, 672+, and 122 for compositions useful for insulating purposes.

126, Stoves and Furnaces, subclass 374.1 for an open-top liquid heating vessel that may include a lid and a condition responsive feature.

137, Fluid Handling, subclasses 334+ for tanks and other fluid handling devices with means for heating as for preventing freezing and subclass 375 for tanks and other fluid handling provided with insulating jackets.

217, Wooden Receptacles, and 220, Receptacles, particularly subclasses 560.12+, 592.01+, and 903, for apparatus and methods relating to heat insulation.

252, Compositions, subclass 62 for heat insulating compositions.

392, Electric Resistance Heating Devices, subclasses 441 through 464 for a tank- or container-type liquid heater.

428, Stock Material or Miscellaneous Articles, appropriate subclasses for a stock material in the form of a single or plural layer web or sheet which may possess structure or be of such a composition as to inherently influence the loss or gain of heat; see particularly subclasses 304.4+, 426+, 457+, and 920+ (a cross-reference art collection).
As expressões de busca podem ser editadas.
Thermally controlled drinking water system for animals

Abstract

A thermally controlled drinking water system for animals having a thermally insulated cabinet containing a water reservoir, a water bowl, a vapor-compression refrigeration water-cooling system, and an electric water heating system, maintains the drinking water at an optimal temperature in both hot weather and freezing weather conditions. The reservoir stores at least five days of water and automatically maintains the water bowl in a constantly filled condition through a water supply conduit and visual indicator indicates when the reservoir water level is getting low. The evaporator coil of the cooling system is engaged with the water bowl in heat exchange relation and electrical heating elements are engaged in heat exchange relation with the water bowl and reservoir. Cooling and heating operations are controlled by an ambient air temperature sensor on the cabinet exterior and a water temperature sensor on the side wall of the water bowl.

Inventors: Neumann; Edward C. (Spring, TX)

Appl. No.: 12/319,477

Filed: January 7, 2009

Related U.S. Patent Documents

<table>
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<th>Patent Number</th>
<th>Issue Date</th>
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Current U.S. Class:
Current International Class:
Field of Search:

References Cited [Referenced By]

U.S. Patent Documents:

Johnson
Bedford
Moore
Rauscha et al.
Visualização de imagens requer "plug-in"

Clique em "Help"
Em seguida: “How to Access Patent Full-page Images”
Patent Full-Page Images

The Patent Full-Text Database contains hyperlinks from the [Images] button at the top of each full-text document display to the full-page images of each page of each patent in the database. New full-page images are normally available each issue day (Tuesday of each week).

- Notices
- Your System Requirements for Viewing Images
- Navigating among Full-Page Images

Notices

Your System Requirements for Viewing Images

PTO's full-page images, nearly four terabytes overall, are stored and delivered at full 300 dots per inch (d.p.i.) resolution in an image file format called "TIFF," using CCITT Group 4 compression. This is the format which is required by the international standards to which all patent offices must conform. TIFF is also the most used lossless image format in the world. Unfortunately, due to the volume of the image data, available funding, and other technical considerations, PTO cannot convert these images to a format more popular on the Web either permanently or by converting on-the-fly as they are delivered.

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- internetiff: http://www.internetiff.com/ (tested: IE, Netscape)

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For Linux®, a plug-in called "Plugger" works nicely with Netscape Communicator®. It is available at http://fredrik.hubbe.net/plugger.html
United States Patent
Neumann

THERMALLY CONTROLLED DRINKING WATER SYSTEM FOR ANIMALS

Inventor: Edward C. Neumann, Spring, TX (US)

Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35
U.S.C. 154(b) by 511 days.

Appl. No.: 12/319,477

Filed: Jan. 7, 2009

Related U.S. Application Data
Provisional application No. 61/010,370, filed on Jan.
7, 2008.

Int. Cl. 
A01K 7/00 (2006.01)

U.S. Cl. 
119/73; 119/72

Field of Classification Search: 
119/73, 119/72

See application file for complete search history.

References Cited
U.S. PATENT DOCUMENTS
3,555,848 A 1/1971 Johnson
4,584,965 A* 4/1986 Moore 119/73
5,432,194 A 6/1995 Sencal
5,661,979 A 5/1997 DeBoer
5,718,124 A 2/1998 Sencal

ABSTRACT

A thermally controlled drinking water system for animals
having a thermally insulated cabinet containing a water reser-
voir, a water bowl, a vapor-compression refrigeration
water-cooling system, and an electric water heating system,
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an ambient air temperature sensor on the cabinet exterior and
a water temperature sensor on the side wall of the water bowl.

14 Claims, 3 Drawing Sheets
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