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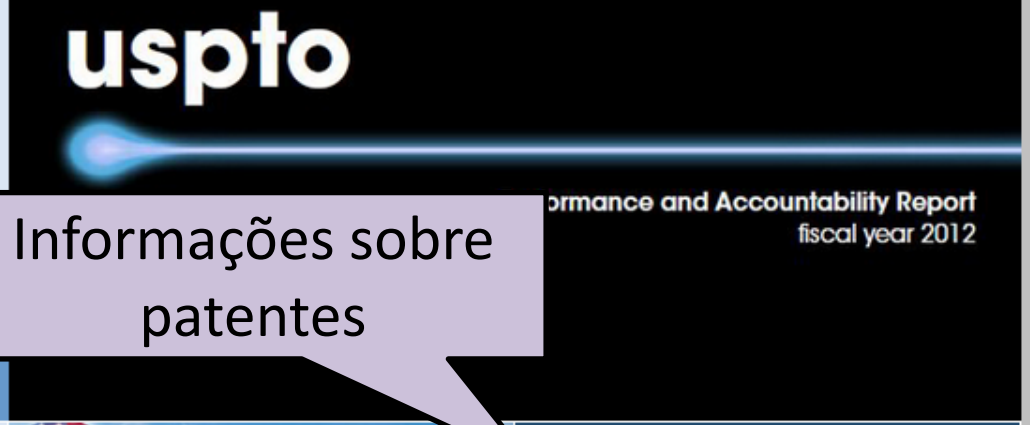

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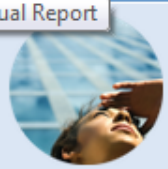

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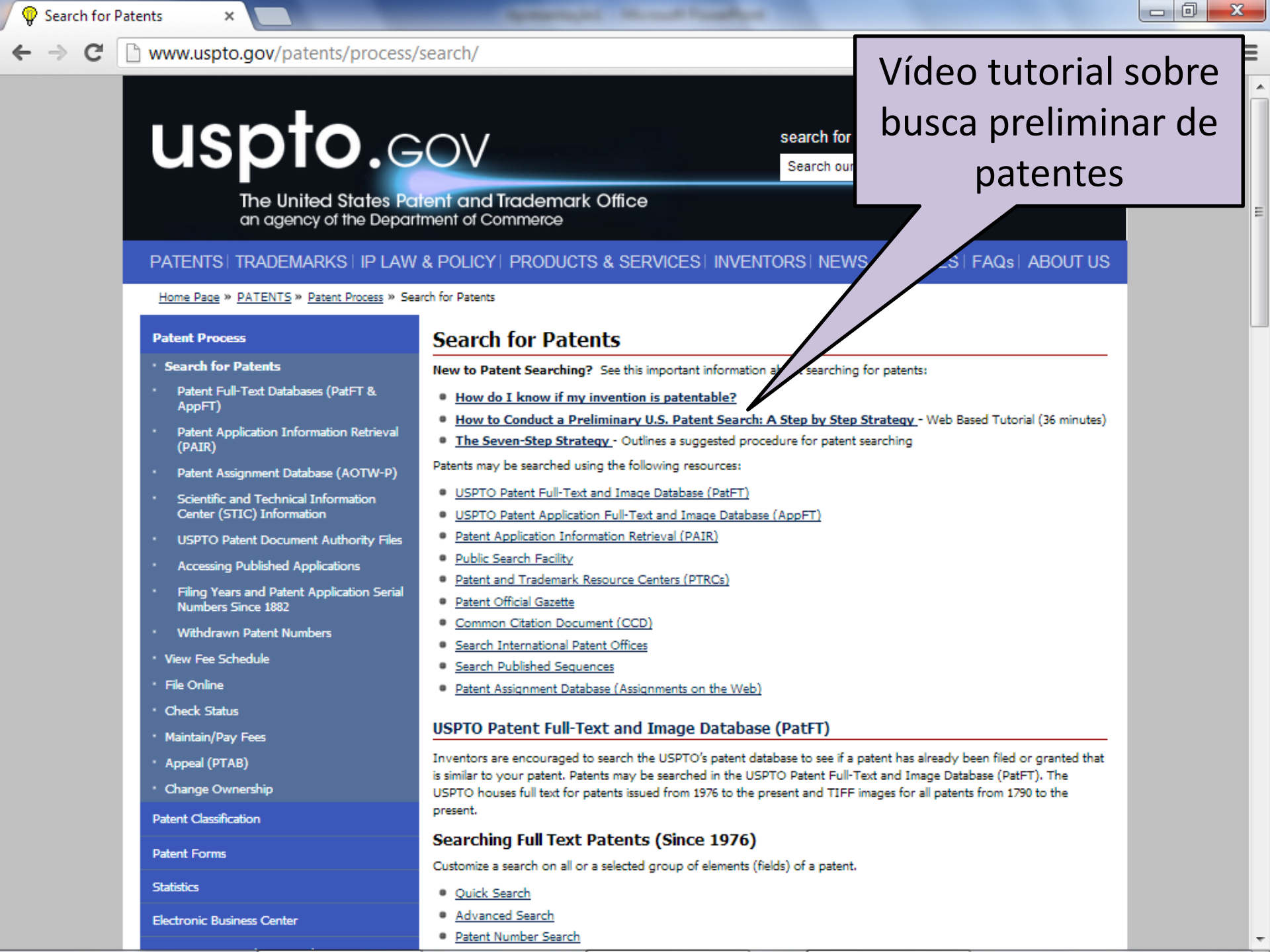
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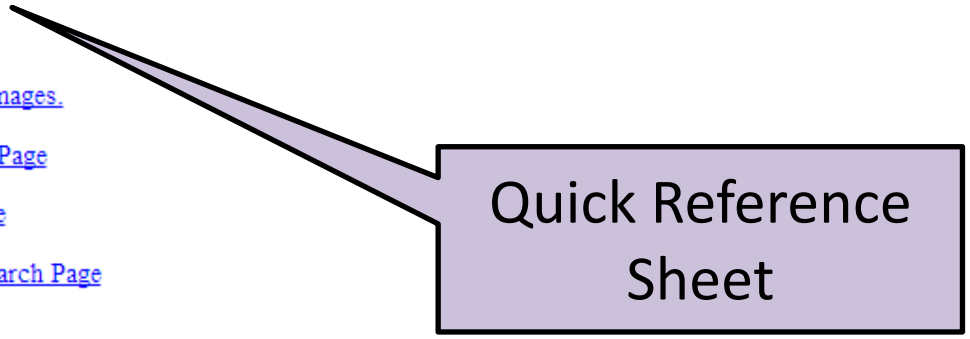

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Application Type	**APT**/code for type of application **APT**/4 and club
Application Type Codes	1 = Utility 2 = Reissue 4 = Design 5 = Defensive Publication (T) 6 = Statutory Invention Registration (H)
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4	5.474.029	T	Animal watering apparatus
5	5.146.873	T	Freezeless animal waterer
6	5.005.524	T	Pet feed bowl construction
7	5.003.928	T	Freeze resistant animal watering installation
8	4.930.572	T	Heat pipe and aqua-thaw animal waterer
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United States Patent **6,722,313**

Wenstrand **April 20, 2004**

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**

Anote as classificações

Current U.S. Class: **119/73**

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

Field of Search: 119/73,77-80

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United States Patent **5,146,873**
Gray **September 15, 1992**

Freezeless animal waterer

Abstract

A freezeless ***animal*** waterer has a vertical container having a top, bottom, sidewalls and an interior compartment. A vertical tube is located within the compartment and extends upwardly from the bottom to the top of the container with both the top and the bottom of the vertical tube being open. A pressurized water supply pipe extending from a riser tube in the ground extends through the vertical tube, and upwardly out of the upper end thereof, and thence downwardly back into the container and into the interior compartment, and terminates in an outlet opening. The cross sectional area of the pressurized water supply pipe is less than that of the vertical tube or the riser tube. An electrical ***heating*** element is positioned in the compartment to warm the water therein. At least one ***animal*** operable ***watering*** valve is located in the sidewall of the container to permit animals to selectively wit

Inventors: **Gray; Donald E.** (West Burlington, IA)
Appl. No.: 07/722,508
Filed: June 27, 1991

Anote as classificações

Current U.S. Class: 119/73
Current International Class: A01K 7/02 (20060101); A01K 7/00 (20060101); A01K 007/06 ()
Field of Search: 119/73,75,78

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United States Patent **5,003,928**

Ketterlin , et al. **April 2, 1991**

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; Rob**

Appl. No.: **07/434,337**

Filed: **November 13, 1989**

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Current U.S. Class: **119/73**

Current International Class: A01K 7/02 (20060101); A01K 7/00 (20060101); A01K 007/04 ()

Field of Search: 119/73,75,78

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-	204	· Crustacean culturing
-	205	·· Mating, spawning, and hatching
	206	··· With separating means
-	207	·· Habitat
	208	··· Offshore
-	209	··· Individual habitat
	210	···· With feeding
	211	··· Habitat with recirculation and filter means
	212	·· Feeding method
	213	·· Separation or harvest
	214	·· Preserving or storing
-	215	· Fish culturing
	216	·· Live fish sorting or grading
-	217	·· Spawning, hatching, and early development
	218	··· Fish incubator or hatching tray
-	219	·· Fish diverter or barrier
	220	··· Electric type
-	221	·· Artificial reef or habitat
	222	··· With tire component
	223	·· Floating fish rearing assembly
-	224	·· Tank array
	225	··· Sequential or stepwise tank array
-	226	·· Fish enclosure - recirculating type
	227	··· With biological filter
-	228	·· Fish enclosure - nonrecirculating type

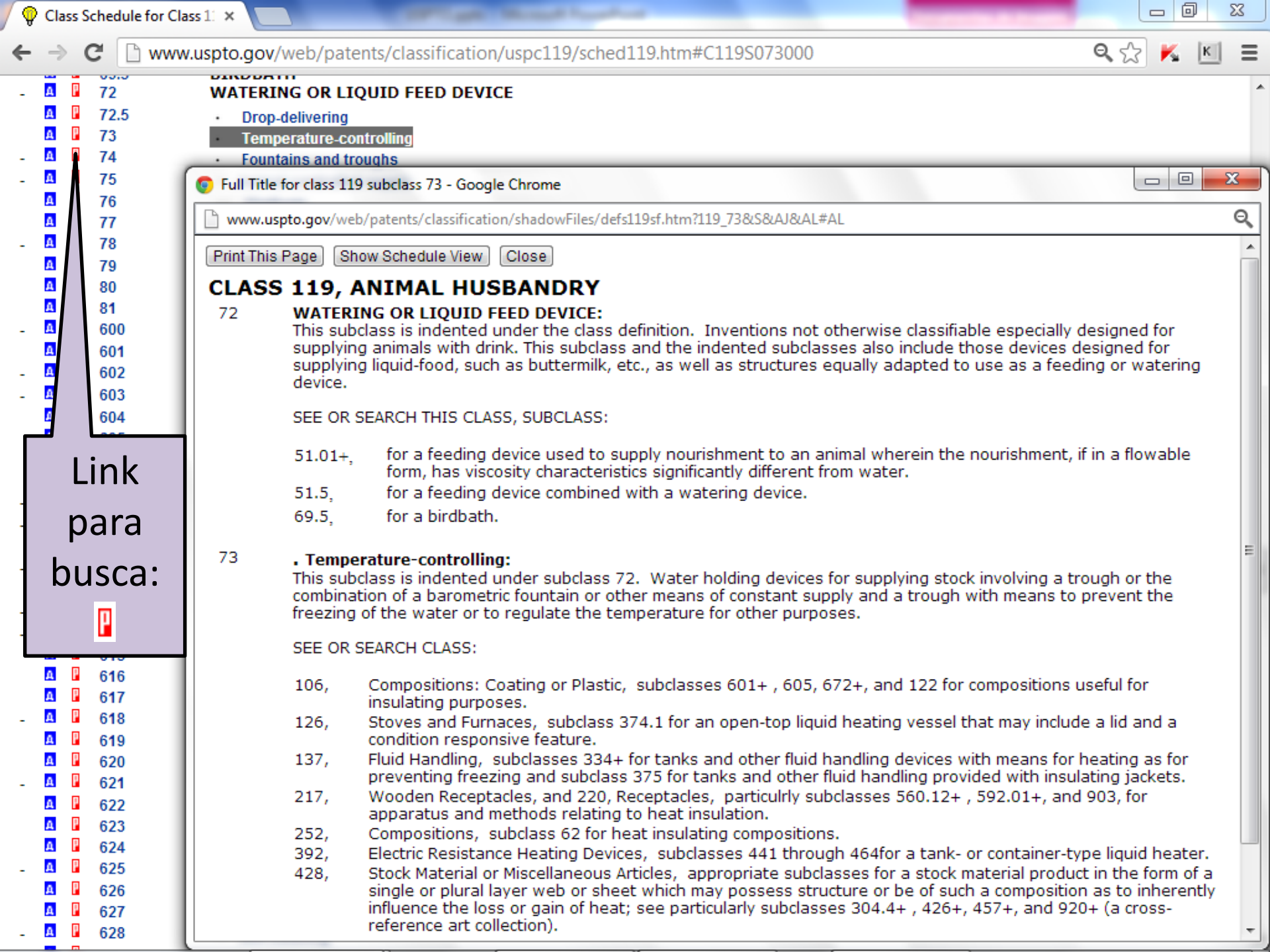
Class Schedule for Class 1

www.uspto.gov/web/patents/classification/uspc119/sched119.htm#C119S073000

69.5	**BIRDBATH**	
72	**WATERING OR LIQUID FEED DEVICE**	
72.5	·	Drop-delivering
73	·	Temperature-controlling
74	·	Fountains and troughs
75	··	Animal-controlled supply
76	···	Platform
77	··	Barometric
78	··	Float-controlled supply
79	···	Oscillating valve
80	···	Reciprocating valve
81	··	Movable trough-controlled supply
600	**GROOMING**	
601	·	Process
602	·	With means to supply treatment material to the animal; e.g., antivermin treatment, flame, attractant
603	··	Liquid
604	···	Sprayer
605	··	Powder
606	··	Air; e.g., to dry
607	·	Means to apply decorative trim to animal
608	·	Driven
609	··	By motor
610	···	Movable cutter
611	·	Including simultaneously used comb and other grooming device
612	··	Brush
613	·	Including separately used comb and other grooming device
614	··	Removable other device
615	···	Brush
616	···	Another comb
617	··	Distinct edges of single blade
618	·	Including means to apply increased tensile force to hair
619	··	Gripper
620	··	Having abrasive surface
621	·	Passive; e.g., rub block
622	··	Passageway
623	·	Straight, smooth bar
624	·	Smooth wire
625	·	Comb
626	··	Having vermin or dust trap
627	··	Mounted for movement during use
628	··	Self-cleaning

Cada termo tem hyperlink para explicação detalhada e recomendações de classes adicionais

"..." subclasse de ".."
".." subclasse de "."
"." subclasse de "NEGRITO"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WATERING OR LIQUID FEED DEVICE
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Temperature-controlling
Fountains and troughs
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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, particulrly 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 464for a tank- or container-type liquid heater.
428, Stock Material or Miscellaneous Articles, appropriate subclasses for a stock material product 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).

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1	8.270.822	T	Aircraft use water heater
2	8.176.874	T	System and method for heating a poultry watering device
3	8.146.535	T	Thermally controlled drinking water system for animals
4	8.117.991	T	Refrigerated pet water dispensing and bowl cleaning system
5	7.934.469	T	Installation for supplying liquid feed to an animal and an autonomously displaceable vehicle for use in such an installation
6	7.814.863	T	Methods and systems for supplying liquid feed to livestock
7	7.762.211	T	Pet feeding and watering apparatus
8	7.735.455	T	Heated poultry fountain
9	7.438.873	T	Animal scent lure with heating capacity

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United States Patent **8,146,535**
Neumann **April 3, 2012**

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

Application Number	Filing Date	Patent Number	Issue Date
61010370	Jan., 2008		

Current U.S. Class:
Current International Class
Field of Search:

Links para patentes US citadas

Link para patentes US citantes

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US008146535B1

(12) **United States Patent**
Neumann

(10) **Patent No.: US 8,146,535 B1**
(45) **Date of Patent: Apr. 3, 2012**

(54) **THERMALLY CONTROLLED DRINKING WATER SYSTEM FOR ANIMALS**

(76) 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.

(21) Appl. No.: **12/319,477**

(22) Filed: **Jan. 7, 2009**

Related U.S. Application Data

(60) Provisional application No. 61/010,370, filed on Jan. 7, 2008.

(51) **Int. Cl.**
A01K 7/00 (2006.01)

(52) **U.S. Cl.** **119/73**; 119/72

(58) **Field of Classification Search** 119/51.5, 119/72, 73

See application file for complete search history.

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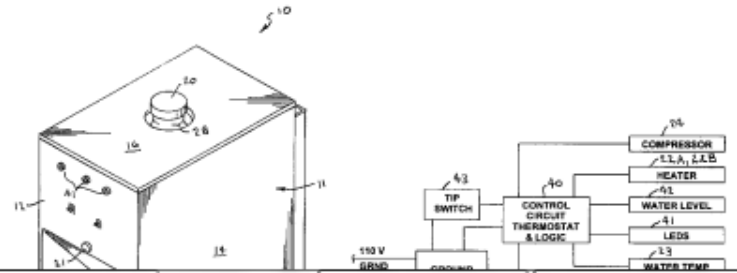
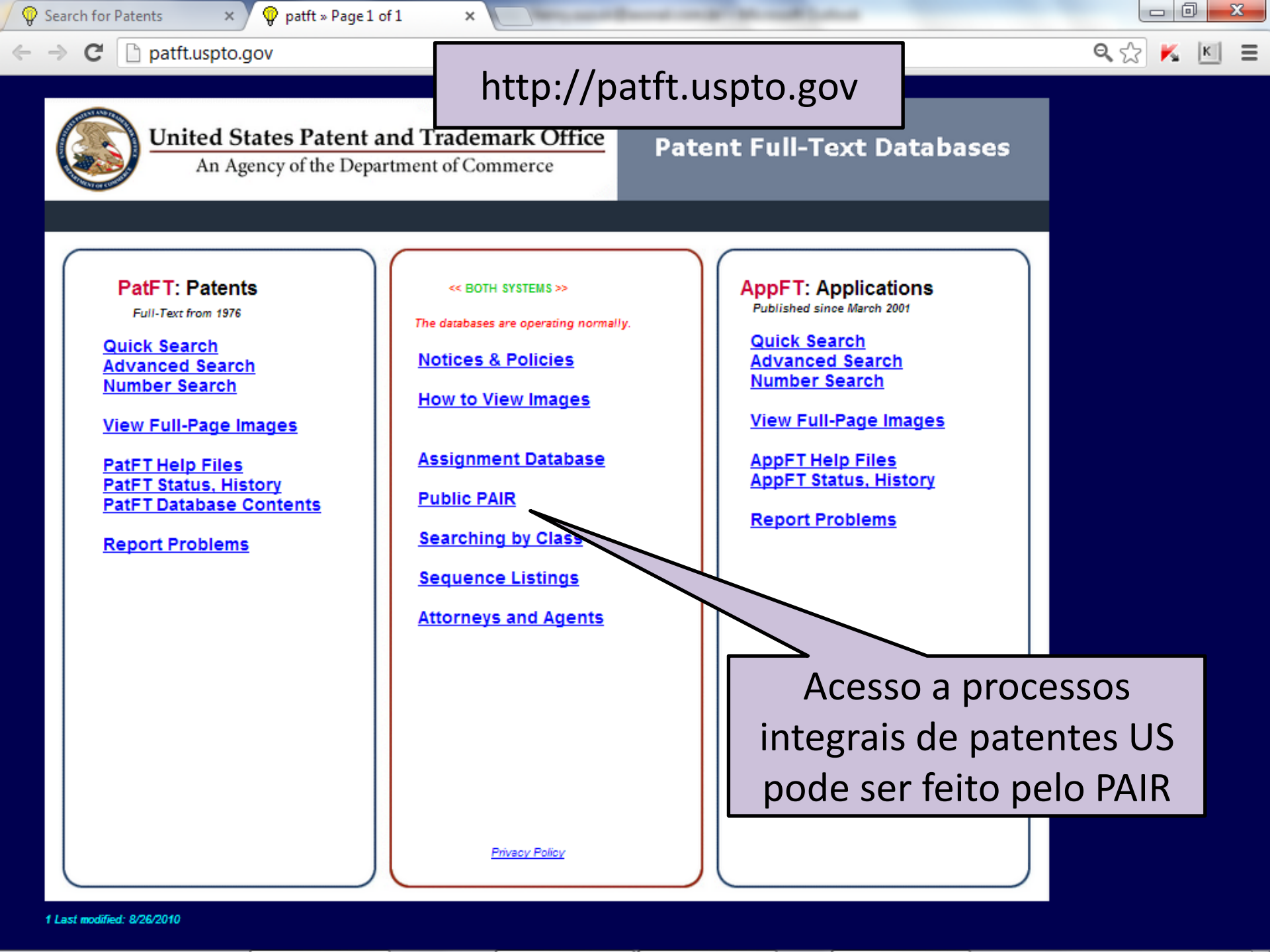
Primary Examiner — Kimberly Smith
(74) *Attorney, Agent, or Firm* — Kenneth A. Roddy

(57) **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.

14 Claims, 3 Drawing Sheets

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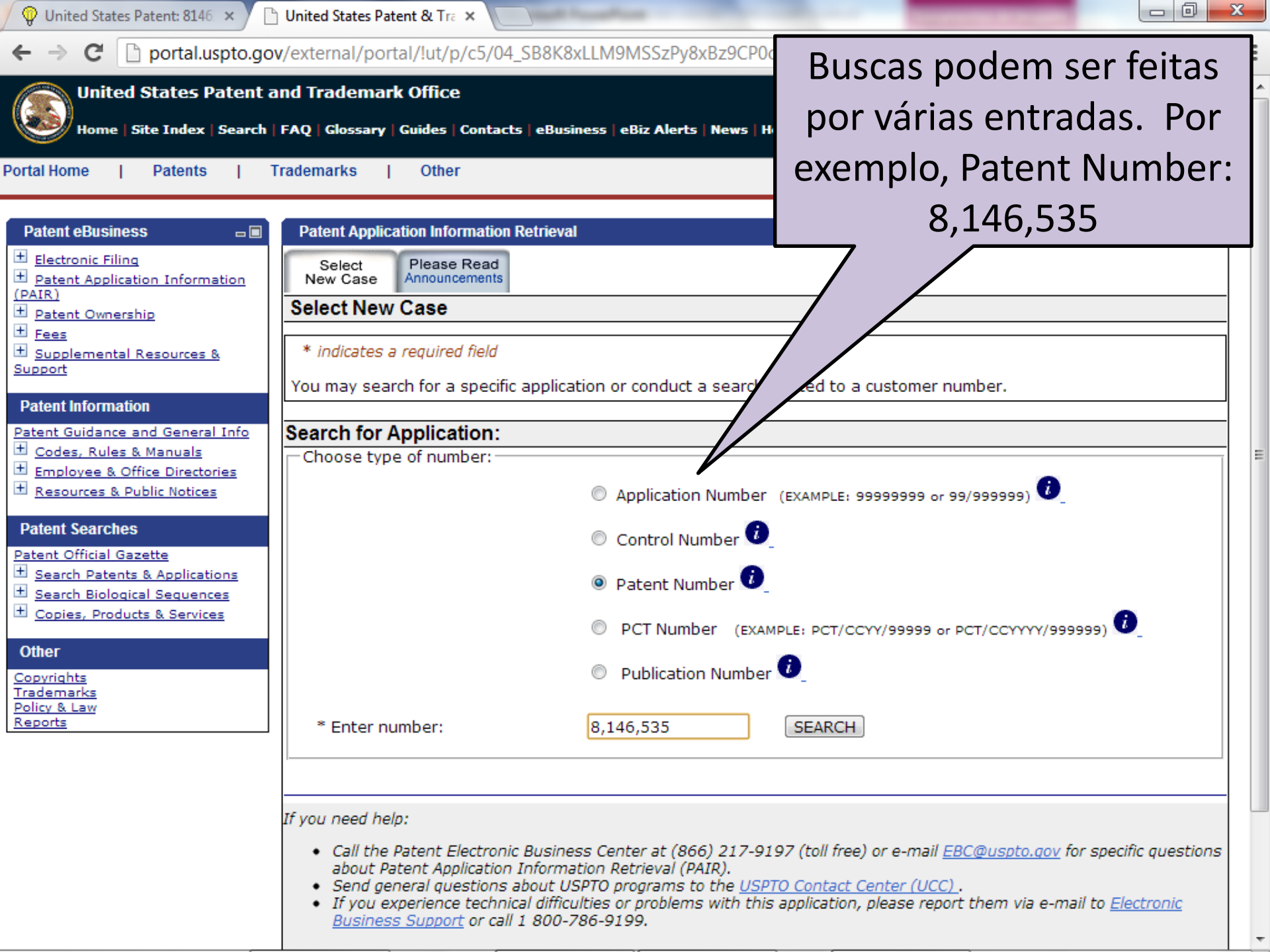
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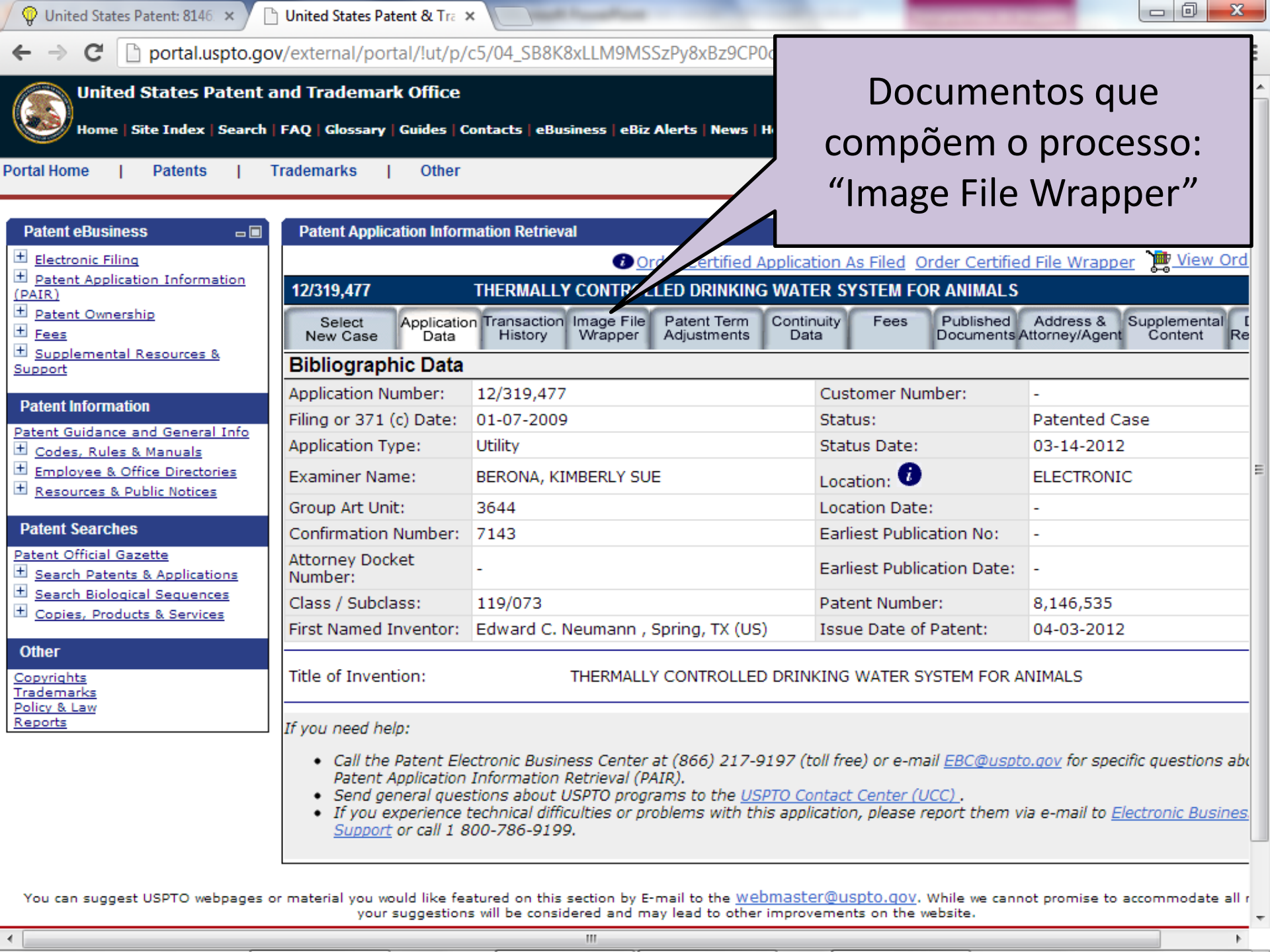
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Class / Subclass: 119/073
Patent Number: 8,146,535
First Named Inventor: Edward C. Neumann , Spring, TX (US)
Issue Date of Patent: 04-03-2012
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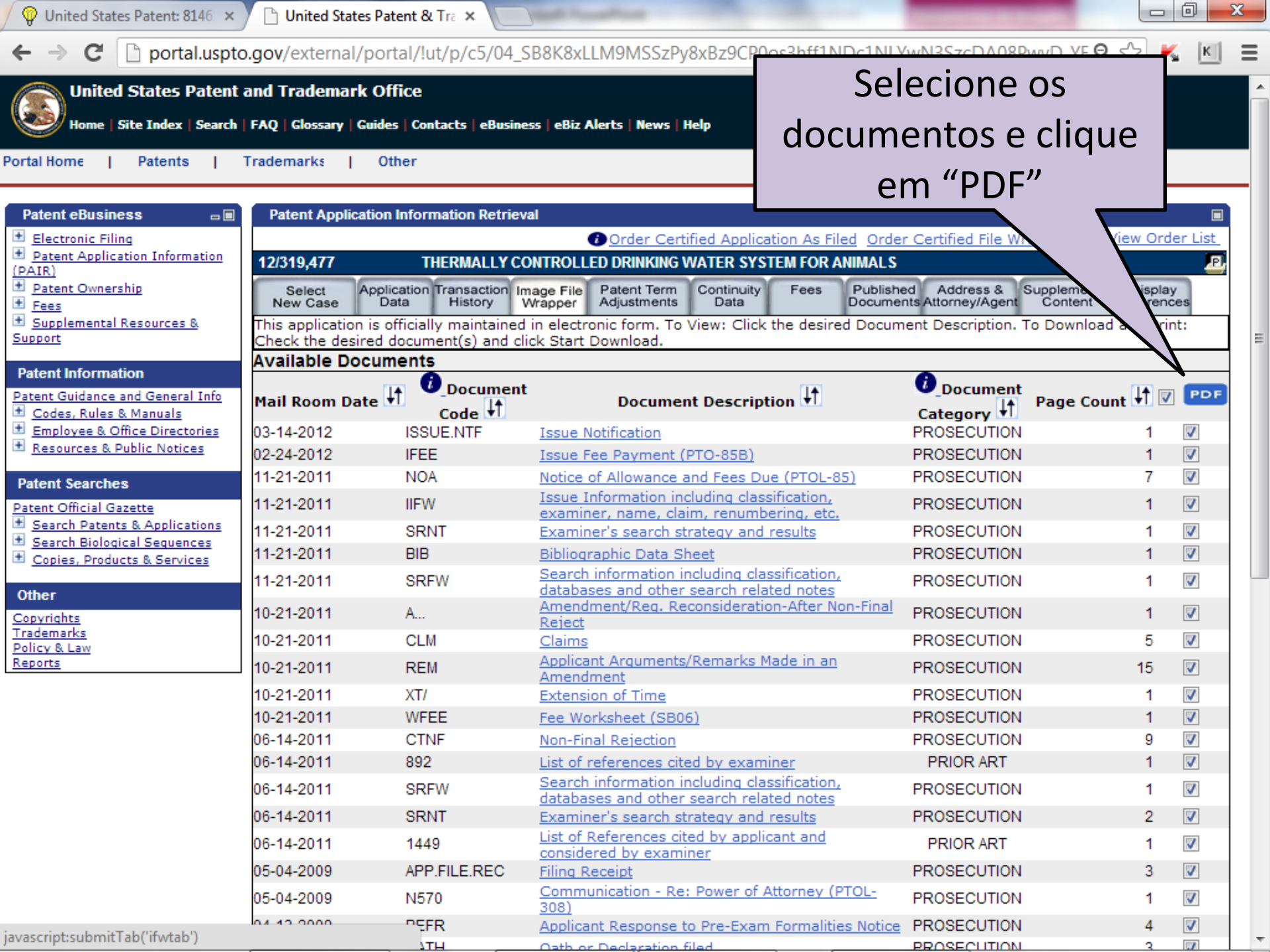

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06-14-2011	892	List of references cited by examiner	PRIOR ART	1	☑
06-14-2011	SRFW	Search information including classification, databases and other search related notes	PROSECUTION	1	☑
06-14-2011	SRNT	Examiner's search strategy and results	PROSECUTION	2	☑
06-14-2011	1449	List of References cited by applicant and considered by examiner	PRIOR ART	1	☑
05-04-2009	APP.FILE.REC	Filing Receipt	PROSECUTION	3	☑
05-04-2009	N570	Communication - Re: Power of Attorney (PTOL-308)	PROSECUTION	1	☑
04-13-2009	REFR	Applicant Response to Pre-Exam Formalities Notice	PROSECUTION	4	☑
	ATH	Oath or Declaration filed	PROSECUTION	3	☑

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O histórico de tramitação do processo pode ser intregralmente acessado

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/319,477	04/03/2012	8146535		7143

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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 511 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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