

7 Documents

Publication numbers	Title	Current assignees
CN202158237U U	Inner tooth shower type water saving nozzle	JINFENG TECHNOLOGY DEVELOPMENT
CN201276429U Y	Quality-divided water supply water saver	FUZHOU JINYUANQUAN SCIENTIFIC TECHNOLOGY
CN2820972U Y	High efficiency water saver	LI ZHENGHUA
US6550264 B1	Air conditioner discharge water saver system	RECTORSEAL
US20010023842 A1	Temporary silt guard for sewer inlet	SILT SAVER
CN2466425U Y	Water saver	SAI LIM, ...
KR19980009774 A	System of saving fuel and non-exchanging engine oil by micronfilter	NE SAVER

Inner tooth shower type water saving nozzle

CN202158237U U

Current assignees

JINFENG TECHNOLOGY DEVELOPMENT*

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Priority data including date

2011CN-U197203 2011-06-13

IPC - International classification

B05B-001/14

F16K-017/30*

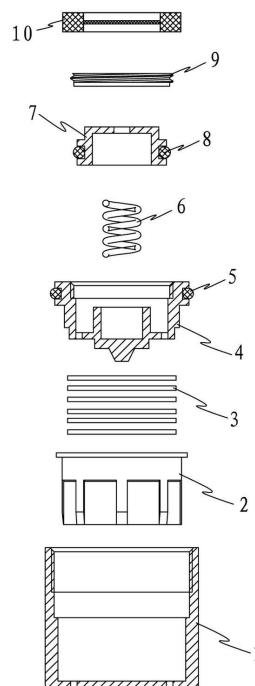
Family[CN202158237](#)

U 2012-03-07



(CN202158237)

The utility model discloses an inner tooth shower type water saving nozzle, which comprises a net sleeve, a plurality of net sheets, an inner core, a spring, a guide column and a pressing cap which are in turn assembled in a water outlet housing, wherein the guide column and the spring are mounted in an inner cavity of the inner core to form a water saving flow channel; the water outlet end surface of the water outlet housing is provided with a plurality of uniformly arranged shower type spraying holes and is communicated with the water saving flow channel. The water saving nozzle can be applied to a water outlet of a water faucet; when the nozzle is used, the net sleeve is placed in the water outlet housing, a plurality of sheets (pieces) of net sheets are placed in the net sleeve and the assembled inner core is placed in the net sleeve, so that a water saver body is formed; a gasket with a net is added in the mounting process and has filtering effect; a special spanner is configured and can bring convenience and quickness to the mounting operation of user; more importantly, the outlet water is in the shape of a shower head, and the water saving effect is very remarkable, namely, the water can be saved by 50% or above.



Latest standardized assignees - inventors removed

JINFENG TECHNOLOGY DEVELOPMENT

Publication numbers

CN202158237

Abstract

(CN202158237)

The utility model discloses an inner tooth shower type water saving nozzle, which comprises a net sleeve, a plurality of net sheets, an inner core, a spring, a guide column and a pressing cap which are in turn assembled in a water outlet housing, wherein the guide column and the spring are mounted in an inner cavity of the inner core to form a water saving flow channel; the water outlet end surface of the water outlet housing is provided with a plurality of uniformly arranged shower type spraying holes and is communicated with the water saving flow channel. The water saving nozzle can be applied to a water outlet of a water faucet; when the nozzle is used, the net sleeve is placed in the water outlet housing, a plurality of sheets (pieces) of net sheets are placed in the net sleeve and the assembled inner core is placed in the net sleeve, so that a water saver body is formed; a gasket with a net is added in the mounting process and has filtering effect; a special spanner is configured and can bring convenience and quickness to the mounting operation of user; more importantly, the outlet water is in the shape of a shower head, and the water saving effect is very remarkable, namely, the water can be saved by 50% or above.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Title

Inner tooth shower type water saving nozzle

Publication numbers with kind code & date[CN202158237](#) U 2012-03-07 CN202158237U**Current assignees**

JINFENG TECHNOLOGY DEVELOPMENT

Original document**Earliest application date**

2011-06-13

TI

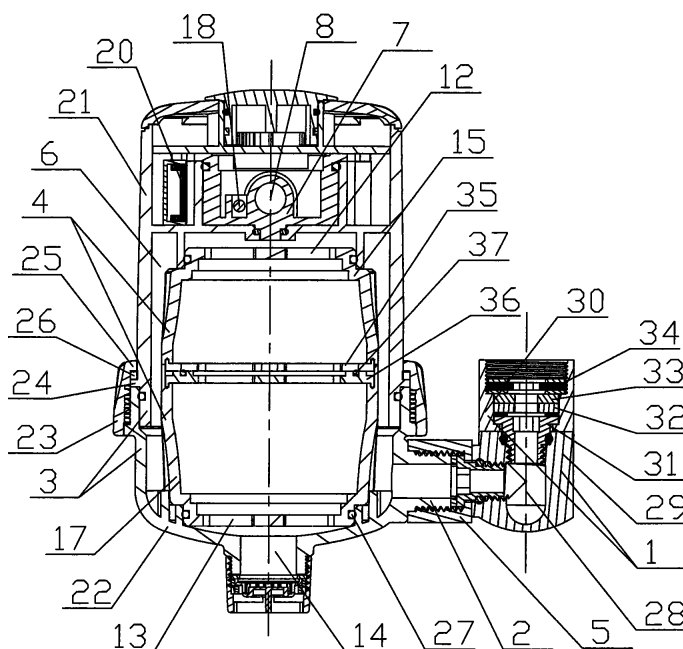
Inner tooth shower type water saving nozzle

Quality-divided water supply water saver
CN201276429U Y

<u>Current assignees</u> FUZHOU JINYUANQUAN SCIENTIFIC TECHNOLOGY* <u>Inventors</u> CHEN XI XU HAIYAN LIN SHIWANG <u>Priority data including date</u> 2008CN-U145767 2008-10-07	<u>IPC - International classification</u> C02F-001/00*
<u>Family</u> CN201276429 Y 2009-07-22    	

(CN201276429)

The utility model relates to a quality-divided water-supplying saving device, comprising a rotatable water adapter connected with an outlet of a water faucet, a shell of a water-inlet connecting port is arranged at the lateral side, and a filter element cylinder with an inlet and an outlet is arranged in the shell; the device is characterized in that: the outlet of the rotatable water adapter is connected with the water-inlet connecting port of the shell, and a water flowing cavity is formed by the inner peripheral wall at the lower side in the shell and the outer peripheral wall of the filter element cylinder; a turbine flow-rate sensing device is arranged on the filter element cylinder, and a turbine is arranged in a water flow channel of the turbine flow-rate sensing device; the water-inlet connecting port is communicated with the inlet of the water flowing channel by the water flowing cavity, and the outlet of the water flowing channel is communicated with the inlet of the filter element cylinder; the lower part of the shell is provided with a water-outlet port which is communicated with the outlet of the filter element cylinder, and the upper side part thereof is provided with a mounting cavity of a circuit board; a micro-control circuit and a power supply battery are arranged in the mounting cavity of the circuit board; the input end of the micro-control circuit is connected with a sensor of the turbine flow-rate sensing device, and the output end thereof is connected with a display screen on a panel at one side of the shell. The device can carry out effective purifying treatment and meter water discharge, thus realizing monitoring to load condition of filter element usage; the metering is used for accurately reminding a user of replacing the filter element.



Latest standardized assignees - inventors removed

FUZHOU JINYUANQUAN SCIENTIFIC TECHNOLOGY

Publication numbers

CN201276429

Abstract

(CN201276429)

The utility model relates to a quality-divided water-supplying saving device, comprising a rotatable water adapter connected with an outlet of a water faucet, a shell of a water-inlet connecting port is arranged at the lateral side, and a filter element cylinder with an inlet and an outlet is arranged in the shell; the device is characterized in that: the outlet of the rotatable water adapter is connected with the water-inlet connecting port of the shell, and a water flowing cavity is formed by the inner peripheral wall at the lower side in the shell and the outer peripheral wall of the filter element cylinder; a turbine flow-rate sensing device is arranged on the filter element cylinder, and a turbine is arranged in a water flow channel of the turbine flow-rate sensing device; the water-inlet connecting port is communicated with the inlet of the water flowing channel by the water flowing cavity, and the outlet of the water flowing channel is communicated with the inlet of the filter element cylinder; the lower part of the shell is provided with a water-outlet port which is communicated with the outlet of the filter element cylinder, and the upper side part thereof is provided with a mounting cavity of a circuit board; a micro-control circuit and a power supply battery are arranged in the mounting cavity of the circuit board; the input end of the micro-control circuit is connected with a sensor of the turbine flow-rate sensing device, and the output end thereof is connected with a display screen on a panel at one side of the shell. The device can carry out effective purifying treatment and meter water discharge, thus realizing monitoring to load condition of filter element usage; the metering is used for accurately reminding a user of replacing the filter element.

Inventors

CHEN XI

XU HAIYAN

LIN SHIWANG

Title

Quality-divided water supply water saver

Publication numbers with kind code & date[CN201276429](#) Y 2009-07-22 CN201276429U**Current assignees**

FUZHOU JINYUANQUAN SCIENTIFIC TECHNOLOGY

Original document**Earliest application date**

2008-10-07

TI

Quality-divided water supply water saver

High efficiency water saver CN2820972U Y

<u>Current assignees</u> LI ZHENGHUA <u>Inventors</u> CHENG MOGUI LI ZHENGHUA <u>Priority data including date</u> 2005CN-U031713 2005-08-26	<u>IPC - International classification</u> E03C-001/08*
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Family

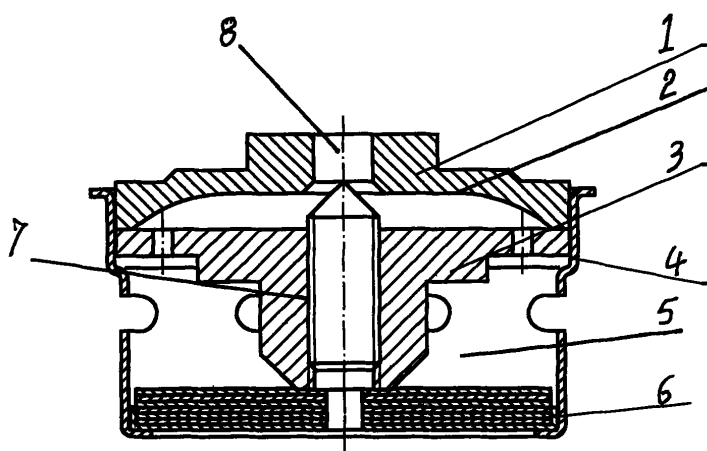
[CN2820972](#)

Y 2006-09-27



(CN2820972)

The utility model includes a valve case. The features of the utility model are as following: a water inlet hole is equipped on a valve cap; a pressure adjusting chamber is equipped below the valve cap; the central part of the pressure adjusting chamber is equipped with a valve needle that adjusts water flow rate; the connecting part of the valve needle and the valve cap is a conical surface; two sides of the conical surface are spherical surfaces; water outlet holes are distributed uniformly around the pressure adjusting chamber; a second-time pressure adjusting chamber is below the pressure adjusting chamber; the bottom of the second-time pressure adjusting chamber is equipped with a filtering net. Two sides of the valve needle on the central part of the pressure adjusting chamber are equipped with loop type springs. The utility model is provided with the following effects: the water saver is more superior than water savers that are sold in market; even if when people use water, they are accustomed to turn the tap to the maximum position, the water saver can achieve the effect of saving water by 50%-70%; besides, flow pressure of water fits with normal water using requirements of people. Besides, the advantages of the water saver are that it is reliable to use, simple to install and beautiful.



Publication numbers

CN2820972

Abstract

(CN2820972)

The utility model includes a valve case. The features of the utility model are as following: a water inlet hole is equipped on a valve cap; a pressure adjusting chamber is equipped below the valve cap; the central part of the pressure adjusting chamber is equipped with a valve needle that adjusts water flow rate; the connecting part of the valve needle and the valve cap is a conical surface; two sides of the conical surface are spherical surfaces; water outlet holes are distributed uniformly around the pressure adjusting chamber; a second-time pressure adjusting chamber is below the pressure adjusting chamber; the bottom of the second-time pressure adjusting chamber is equipped with a filtering net. Two sides of the valve needle on the central part of the pressure adjusting chamber are equipped with loop type springs. The utility model is provided with the following effects: the water saver is more superior than water savers that are sold in market; even if when people use water, they are accustomed to turn the tap to the maximum position, the water saver can achieve the effect of saving water by 50%-70%; besides, flow pressure of water fits with normal water using requirements of people. Besides, the advantages of the water saver are that it is reliable to use, simple to install and beautiful.

Inventors

CHENG MOGUI

LI ZHENGHUA

Title

High efficiency water saver

Publication numbers with kind code & date[CN2820972](#) Y 2006-09-27 CN2820972U**Current assignees**

LI ZHENGHUA

Original document**Earliest application date**

2005-08-26

TI

High efficiency water saver

Air conditioner discharge water saver system US6550264 B1

Current assignees

RECTORSEAL*

Inventors

CANTOLINO CHRISTOPHER RALPH

Priority data including date

2001US-60316916 2001-09-01

2002US-10074704 2002-02-13

2003US-10420665 2003-04-22

2005US-11104227 2005-04-12

IPC - International classification

A23L-003/36*	C02F-001/68*	C02F-001/76
F24F-013/22	F25D-021/14	

CPC - Cooperative classification

B01F-001/00/27	B01F-005/06/06	B01F-005/06/07
C02F-001/68/8*	C02F-001/76	C02F-2209/40
F24F-013/22/2	F25D-021/14	F25D-2321/146

PCL - US patent classification

PCLO:	062285000*	062303000*	062303000*
PCLX:	062279000	062285000*	062288000
	062291000	210199000	210206000
	210754000	210764000	210749000

Family

[US7389651](#)

B2 2008-06-24

[US6895771](#)

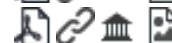
B1 2005-05-24

[US20050198989](#)

A1 2005-09-15

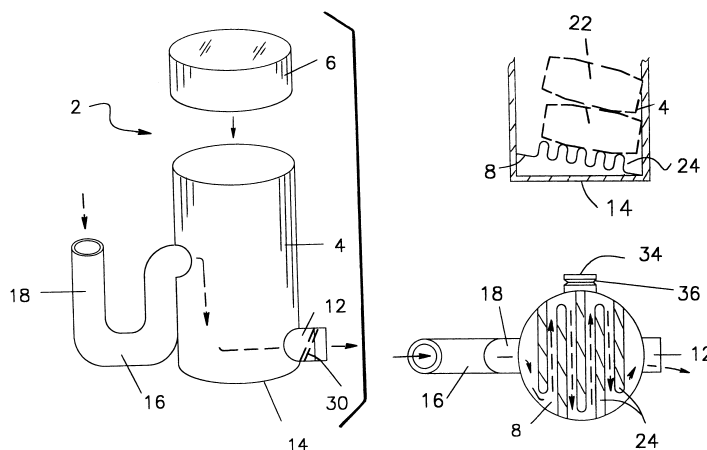
[US6550264](#)

B1 2003-04-22



(US6550264)

A gravity-assisted water saving system, and a method for its use, that can be utilized to collect the condensate from an air conditioning system, sanitize it, and then divert it for constructive use. It has a chamber with an inclined bottom surface, a dimension slightly larger than a stack of several tablets used for sanitizing swimming pool water or bleach tablets used for laundry sanitizing purposes, a P-trap on its water inlet side that prevents corrosive fumes from entering the air conditioning system from which the condensate is derived, a removable cap sealing its top opening to prevent escape of corrosive fumes into the atmosphere, and an optional mounting bracket for enhanced stabilization. Inflow tubing connected to the chamber permits ready attachment of the present invention to an air conditioning condensate discharge pipe, while a discharge tube in an inferior position transports reclaimed water to its location of subsequent use.



Latest standardized assignees - inventors removed

RECTORSEAL

Publication numbers

US7389651

US20050198989

US6895771

US6550264

Abstract

(US6550264)

A gravity-assisted water saving system, and a method for its use, that can be utilized to collect the condensate from an air conditioning system, sanitize it, and then divert it for constructive use. It has a chamber with an inclined bottom surface, a dimension slightly larger than a stack of several tablets used for sanitizing swimming pool water or bleach tablets used for laundry sanitizing purposes, a P-trap on its water inlet side that prevents corrosive fumes from entering the air conditioning system from which the condensate is derived, a removable cap sealing its top opening to prevent escape of corrosive fumes into the atmosphere, and an optional mounting bracket for enhanced stabilization. Inflow tubing connected to the chamber permits ready attachment of the present invention to an air conditioning condensate discharge pipe, while a discharge tube in an inferior position transports reclaimed water to its location of subsequent use.

Inventors

CANTOLINO CHRISTOPHER RALPH

Title

Air conditioner discharge water saver system

Publication numbers with kind code & date[US7389651](#) B2 2008-06-24 US7389651[US20050198989](#) A1 2005-09-15 US20050198989[US6895771](#) B1 2005-05-24 US6895771[US6550264](#) B1 2003-04-22 US6550264**Current assignees**

RECTORSEAL

Original document**Earliest application date**

2002-02-13

TI

Air conditioner discharge water saver system

Temporary silt guard for sewer inlet

US20010023842 A1

<u>Current assignees</u> SILT SAVER* <u>Inventors</u> SINGLETON EARL ROGER <u>Priority data including date</u> 1997US-08834446 1997-04-16 1998US-09052649 1998-03-31 1999US-09465570 1999-12-17 2000US-09639463 2000-08-15 2001US-09866006 2001-05-24	<u>IPC - International classification</u> B01D-035/02* C02F-007/00 E03F-009/00 <u>CPC - Cooperative classification</u> B01D-029/15 E03F-001/00* E03F-005/04 E03F-005/04/04 E03F-005/10/5* <u>PCL - US patent classification</u> PCLO: 210747300* 210163000* PCLX: 210163000* 210166000 210170030 210232000 210460000 210462000 210767000 405041000
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<u>Family</u>			
US6428693	B2	2002-08-06	   
US6416674	B1	2002-07-09	   
US20010023842	A1	2001-09-27	   

(US20010023842)

A temporary silt guard for temporarily enclosing the open upper end of a drop inlet during the construction of a road system in commercial and residential developments is adapted to fit over and seat upon the open end of the drop inlet to enable runoff water to drain into the drop inlet while preventing silt and debris from being carried into and collected therein. The silt guard includes a body portion formed from a series of spaced slats defining radially spaced passages through the silt guard. A filter cover is received over the silt guard, formed from a silt screen material, with the slats of the body portion providing rigidity and strength to the filter cover. The filter cover filters out silt and debris while enabling storm water and runoff to drain into the drop inlet.

Latest standardized assignees - inventors removed

SILT SAVER

Publication numbers

US6428693

US6416674

US20010023842

Abstract

(US20010023842)

A temporary silt guard for temporarily enclosing the open upper end of a drop inlet during the construction of a road system in commercial and residential developments is adapted to fit over and seat upon the open end of the drop inlet to enable runoff water to drain into the drop inlet while preventing silt and debris from being carried into and collected therein. The silt guard includes a body portion formed from a series of spaced slats defining radially spaced passages through the silt guard. A filter cover is received over the silt guard, formed from a silt screen material, with the slats of the body portion providing rigidity and strength to the filter cover. The filter cover filters out silt and debris while enabling storm water and runoff to drain into the drop inlet.

Inventors

SINGLETON EARL ROGER

Title

Temporary silt guard for sewer inlet

Publication numbers with kind code & date

US6428693	B2	2002-08-06	US6428693
US6416674	B1	2002-07-09	US6416674
US20010023842	A1	2001-09-27	US20010023842

**Current assignees**

SILT SAVER

Original document**Earliest application date**

2000-08-15

TI

Temporary silt guard for sewer inlet

Water saver CN2466425U Y

Current assignees

SAI LIM
SONG NING

Inventors

SAI LIM
SONG NING

Priority data including date

2000CN-U228760 2000-07-05

IPC - International classification

F16K-001/00* F16K-047/00

Family

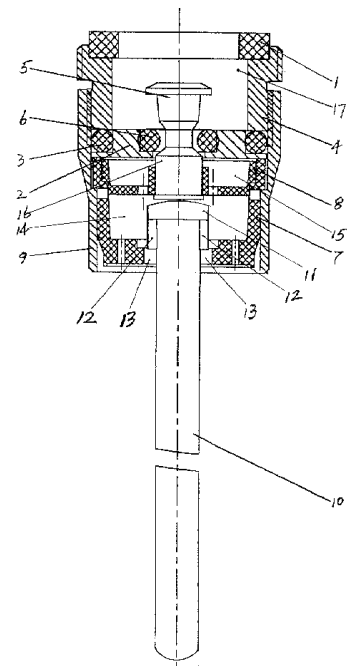
[CN2466425](#)

Y 2001-12-19



(CN2466425)

The utility model relates to a water-saving device which is characterized in that a nut, a fixed sleeve, a valve rod, a valve core and a valve seat are cooperated, wherein one end of the nut 4 is fixedly connected with the fixed sleeve 9 and the other end is fixedly connected with an opening of a water tap. The valve seat 6 is positioned above an inner hole of an end cover 2 and in an inner cavity 15 of the fixed sleeve (9). The valve core 5 is positioned in a water inlet channel of the nut 17 and in the inner cavity 15 of the fixed sleeve 9, and the length of the valve core 5 leads the valve core 5 to extend out of the inner cavity 15 of the fixed sleeve 9. The water saving device also comprises a position locking device for the valve core, which can lock the valve core 5 in an opened position. The utility model can be widely used on water taps of families, hotels and public places.



Publication numbers

CN2466425

Abstract

(CN2466425)

The utility model relates to a water-saving device which is characterized in that a nut, a fixed sleeve, a valve rod, a valve core and a valve seat are cooperated, wherein one end of the nut 4 is fixedly connected with the fixed sleeve 9 and the other end is fixedly connected with an opening of a water tap. The valve seat 6 is positioned above an inner hole of an end cover 2 and in an inner cavity 15 of the fixed sleeve (9). The valve core 5 is positioned in a water inlet channel of the nut 17 and in the inner cavity 15 of the fixed sleeve 9, and the length of the valve core 5 leads the valve core 5 to extend out of the inner cavity 15 of the fixed sleeve 9. The water saving device also comprises a position locking device for the valve core, which can lock the valve core 5 in an opened position. The utility model can be widely used on water taps of families, hotels and public places.

Inventors

SAI LIM

SONG NING

Title

Water saver

Publication numbers with kind code & date[CN2466425](#) Y 2001-12-19 CN2466425U**Current assignees**

SAI LIM

SONG NING

Original document**Earliest application date**

2000-07-05

TI

Water saver

System of saving fuel and non-exchanging engine oil by micronfilter

KR19980009774 A

Current assignees

NE SAVER*

Inventors

HWANG, KWANG HYEON

KO, KYU TAE

RYU, TAE GYEUNG

Priority data including date

1998KR-0003157 1998-02-04

IPC - International classification

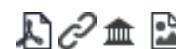
F01M-001/10*

Family[KR100276825](#)

B1 2001-02-01

[KR980009774](#)

A 1998-04-30

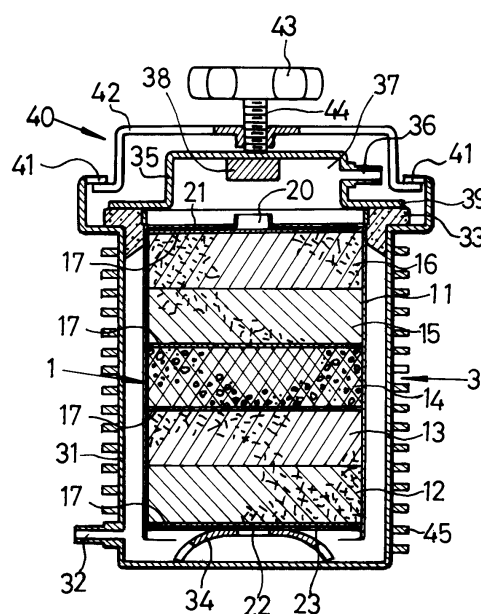


(KR980009774)

PURPOSE: System of saving fuel and non-changing engine oil by a micronfilter is provided to improve output of a combustion engine by removing iron or water of the engine oil and to conveniently replace filter.

CONSTITUTION: A device for saving fuel and non-changing engine oil by a micronfilter comprises filter medium(1) forming a passage to pass oil through a high absorption resin; a filtering tank(3) filtering the engine oil by letting in the passage of the filter medium; a magnet(38) contained in the filtering tank; a filtering passage returning the filtrated oil; an engine oil extractor supplying the engine oil into the filtering tank by being mounted on an engine oil filter mounting unit; an oil injecting port cap; a vessel(31) receiving the filter medium; an oil discharging port(32) mounted on a lower portion of the vessel; a packing(33) contacting to a cover(35); a sealing apparatus(40); and a cooling fan(45) cooling the engine oil by being mounted on an outer circumference of the vessel.

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Latest standardized assignees - inventors removed

NE SAVER

Publication numbers

KR100276825

KR980009774

Abstract

(KR980009774)

PURPOSE: System of saving fuel and non-changing engine oil by a micronfilter is provided to improve output of a combustion engine by removing iron or water of the engine oil and to conveniently replace filter.

CONSTITUTION: A device for saving fuel and non-changing engine oil by a micronfilter comprises filter medium(1) forming a passage to pass oil through a high absorption resin; a filtering tank(3) filtering the engine oil by letting in the passage of the filter medium; a magnet(38) contained in the filtering tank; a filtering passage returning the filtrated oil; an engine oil extractor supplying the engine oil into the filtering tank by being mounted on an engine oil filter mounting unit; an oil injecting port cap; a vessel(31) receiving the filter medium; an oil discharging port(32) mounted on a lower portion of the vessel; a packing(33) contacting to a cover(35); a sealing apparatus(40); and a cooling fan(45) cooling the engine oil by being mounted on an outer circumference of the vessel.

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Inventors

HWANG, KWANG HYEON

KO, KYU TAE

RYU, TAE GYEUNG

Title

System of saving fuel and non-exchanging engine oil by micronfilter

Publication numbers with kind code & date[KR100276825](#)

B1 2001-02-01 KR100276825

[KR980009774](#)

A 1998-04-30 KR19980009774

**Current assignees**

NE SAVER

Original document**Earliest application date**

1998-02-04

TI

System of saving fuel and non-exchanging engine oil by micronfilter