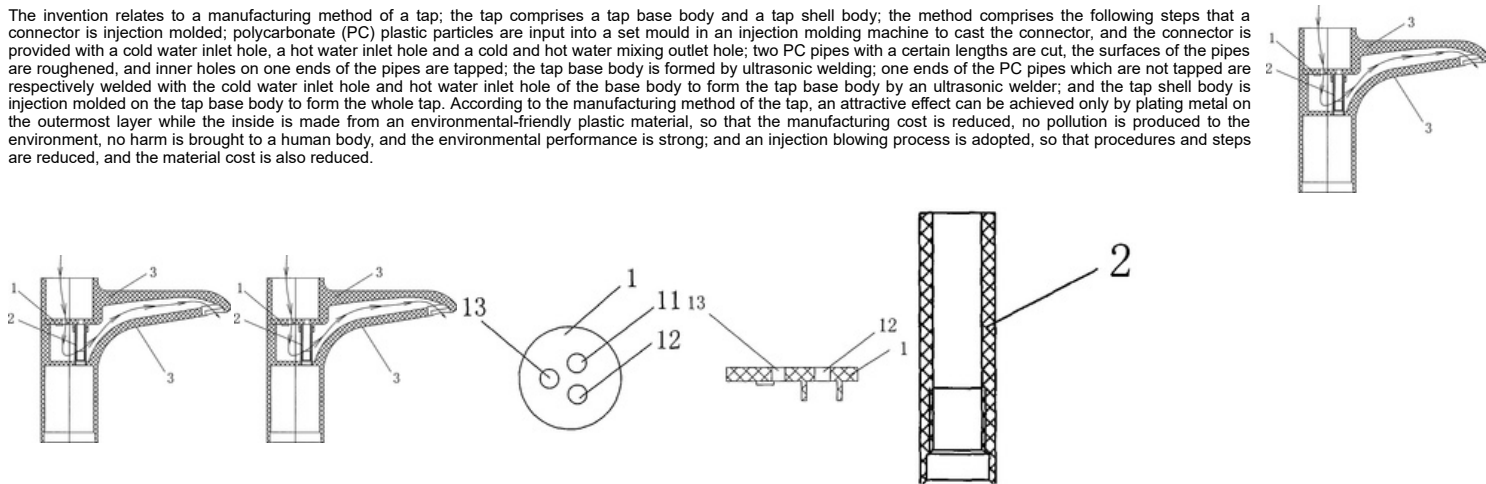
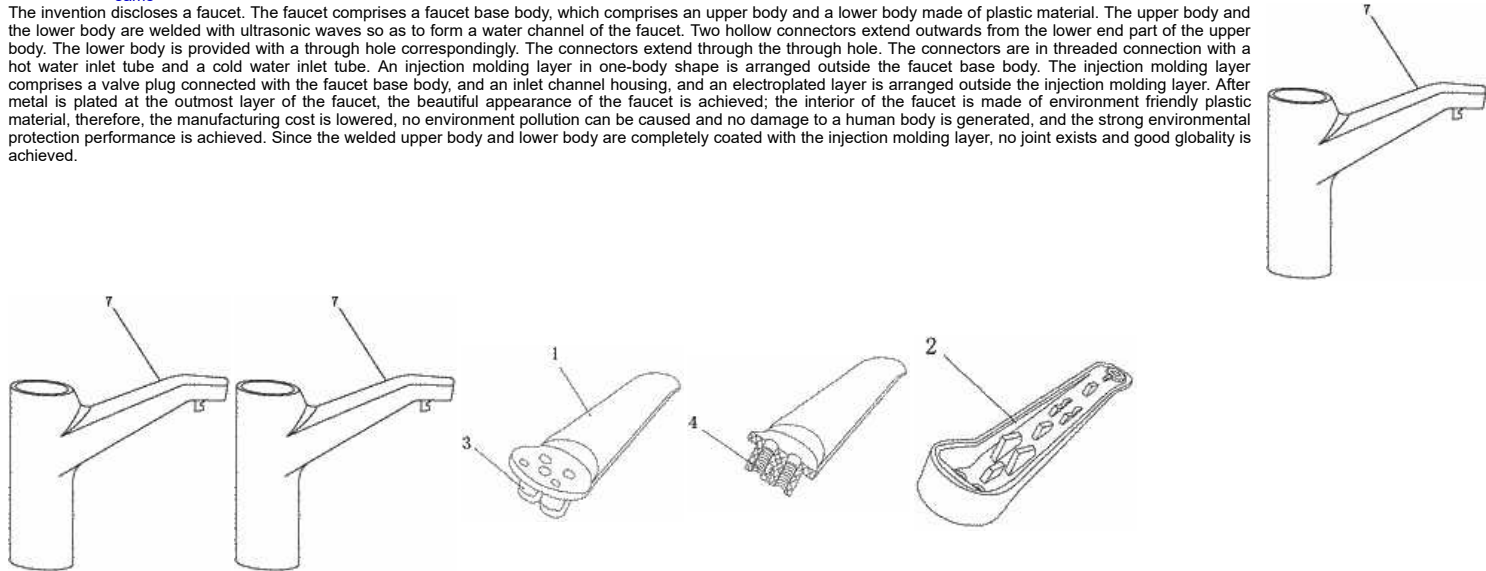
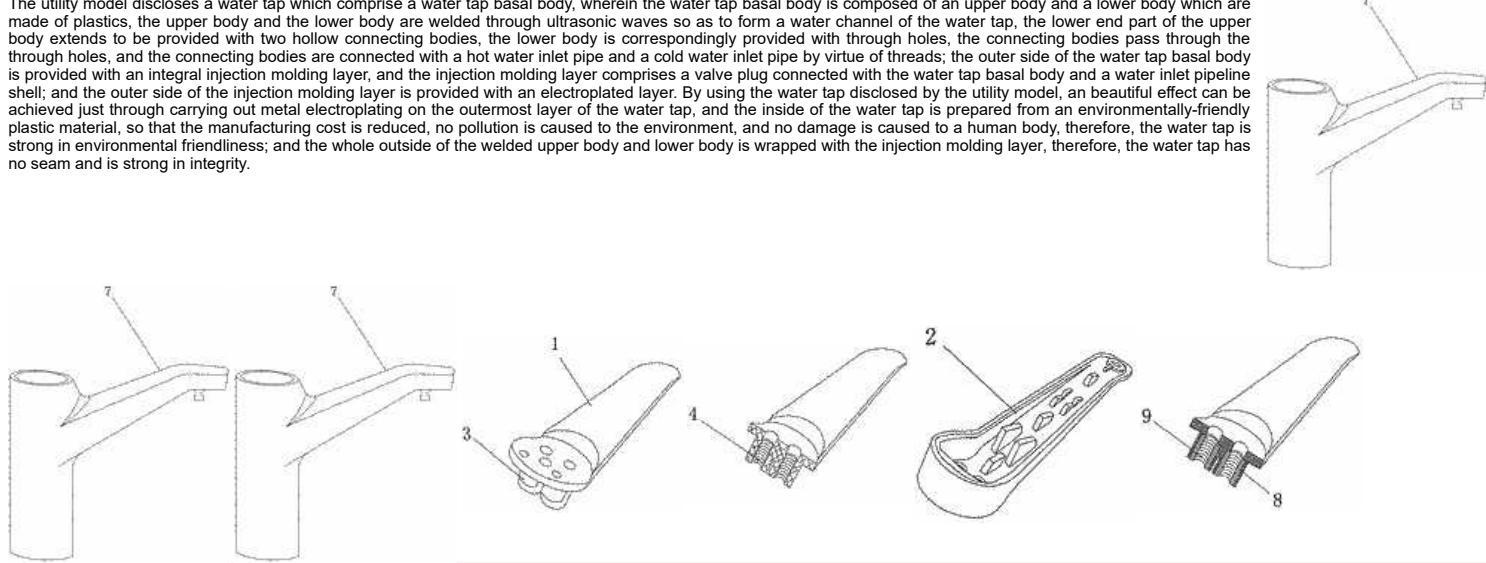


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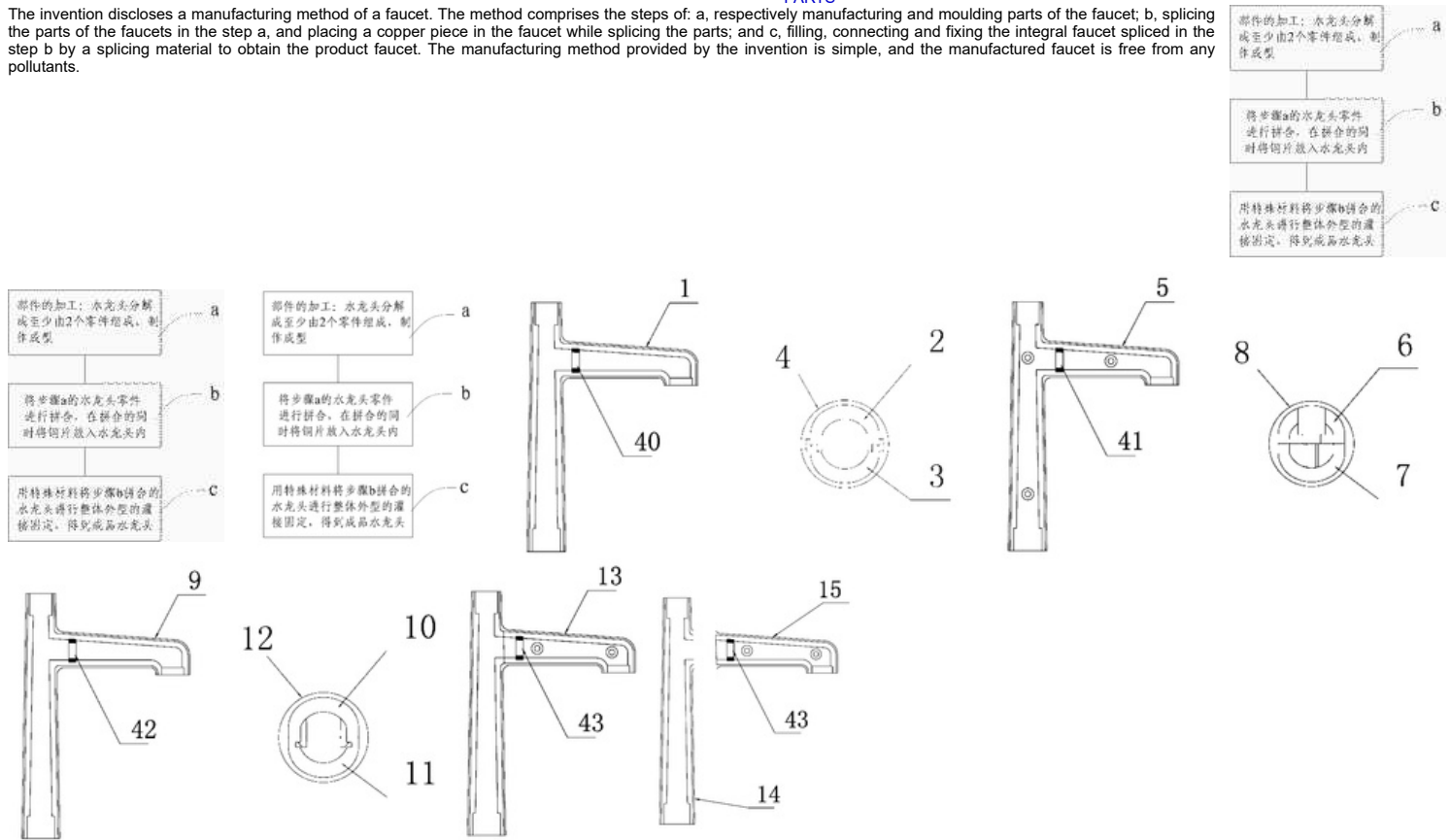
#	Title	Publication number	1st App. date	Applicant/Assignee	1st Publ. date	Publ. date
1.	Manufacturing method of tap	CN102644783	2012-03-30	ZHONGWEI SHU	2012-08-22	2012-08-22
The invention relates to a manufacturing method of a tap; the tap comprises a tap base body and a tap shell body; the method comprises the following steps that a connector is injection molded; polycarbonate (PC) plastic particles are input into a set mould in an injection molding machine to cast the connector, and the connector is provided with a cold water inlet hole, a hot water inlet hole and a cold and hot water mixing outlet hole; two PC pipes with a certain lengths are cut, the surfaces of the pipes are roughened, and inner holes on one ends of the pipes are tapped; the tap base body is formed by ultrasonic welding; one ends of the PC pipes which are not tapped are respectively welded with the cold water inlet hole and hot water inlet hole of the base body to form the tap base body by an ultrasonic welder; and the tap shell body is injection molded on the tap base body to form the whole tap. According to the manufacturing method of the tap, an attractive effect can be achieved only by plating metal on the outermost layer while the inside is made from an environmental-friendly plastic material, so that the manufacturing cost is reduced, no pollution is produced to the environment, no harm is brought to a human body, and the environmental performance is strong; and an injection blowing process is adopted, so that procedures and steps are reduced, and the material cost is also reduced.						
						
2.	Faucet and method for manufacturing same	CN102367885	2011-09-21	ZHONGWEI SHU	2012-03-07	2012-03-07
The invention discloses a faucet. The faucet comprises a faucet base body, which comprises an upper body and a lower body made of plastic material. The upper body and the lower body are welded with ultrasonic waves so as to form a water channel of the faucet. Two hollow connectors extend outwards from the lower end part of the upper body. The connectors are in threaded connection with a hot water inlet tube and a cold water inlet tube. An injection molding layer in one-body shape is arranged outside the faucet base body. The injection molding layer comprises a valve plug connected with the faucet base body, and an inlet channel housing, and an electroplated layer is arranged outside the injection molding layer. After metal is plated at the outmost layer of the faucet, the beautiful appearance of the faucet is achieved; the interior of the faucet is made of environment friendly plastic material, therefore, the manufacturing cost is lowered, no environment pollution can be caused and no damage to a human body is generated, and the strong environmental protection performance is achieved. Since the welded upper body and lower body are completely coated with the injection molding layer, no joint exists and good globality is achieved.						
						
3.	Water tap	CN202280895	2011-09-21	ZHONGWEI SHU	2012-06-20	2012-06-20
The utility model discloses a water tap which comprise a water tap basal body, wherein the water tap basal body is composed of an upper body and a lower body which are made of plastics, the upper body and the lower body are welded through ultrasonic waves so as to form a water channel of the water tap, the lower end part of the upper body extends to be provided with two hollow connecting bodies, the lower body is correspondingly provided with through holes, the connecting bodies pass through the through holes, and the connecting bodies are connected with a hot water inlet pipe and a cold water inlet pipe by virtue of threads; the outer side of the water tap basal body is provided with an integral injection molding layer, and the injection molding layer comprises a valve plug connected with the water tap basal body and a water inlet pipeline shell; and the outer side of the injection molding layer is provided with an electroplated layer. By using the water tap disclosed by the utility model, an beautiful effect can be achieved just through carrying out metal electroplating on the outermost layer of the water tap, and the inside of the water tap is prepared from an environmentally-friendly plastic material, so that the manufacturing cost is reduced, no pollution is caused to the environment, and no damage is caused to a human body, therefore, the water tap is strong in environmental friendliness; and the whole outside of the welded upper body and lower body is wrapped with the injection molding layer, therefore, the water tap has no seam and is strong in integrity.						
						

4. [Faucet filled with anti-impact high-dense elastomer material and preparation method of faucet](#) CN102155577 2011-02-28 XIAMEN RUNNER INDUSTRY* 2011-08-17 2011-08-17

The invention relates to a faucet, in particular to the faucet filled with an anti-impact high-dense elastomer material and a preparation method of the faucet. The faucet comprises an acrylonitrile butadiene styrene (ABS) plastic shell and mating parts, wherein the mating parts comprise a valve core, a handle, a water outlet net, a seal ring, a fastening screw and the like. The method comprises the following steps of: combining and connecting water channels of the faucet according to a waterway requirement of the faucet; putting the water channels into a mould of a shell of the faucet and fixing the water channels; fusing a high-dense elastomer which is mixed with an inorganic filling material by an extruder, an injection moulding machine, a kneading machine and an open mill, and filling the high-dense elastomer into the mould of the shell of the faucet; cooling the high-dense elastomer in the mould until the high-dense elastomer is formed, taking the high-dense elastomer out of the mould, and carrying out injection moulding on the high-dense elastomer to form a plastic shell of the faucet; and carrying out surface treatment on the shell, installing the filled faucet into the plastic shell of the faucet, and assembling the prepared faucet mating parts which are produced by the conventional process and comprise the valve core, the handle, the water outlet net, the seal ring, the fastening screw and the like into the faucet filled with the anti-impact high-dense elastomer material according to the conventional assembling mode.

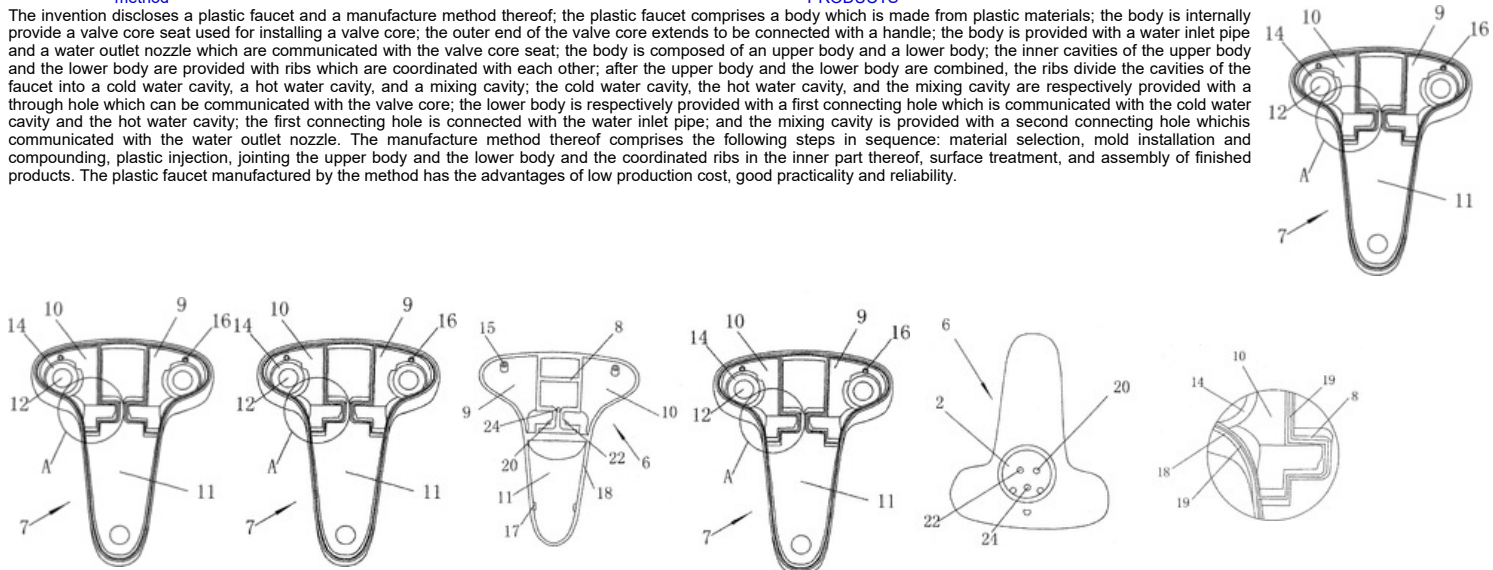
5. [Manufacturing method of faucet](#) CN103016810 2012-12-07 NINGBO NEW NOVARTIS AUTO PARTS* 2013-04-03 2013-04-03

The invention discloses a manufacturing method of a faucet. The method comprises the steps of: a, respectively manufacturing and moulding parts of the faucet; b, splicing the parts of the faucets in the step a, and placing a copper piece in the faucet while splicing the parts; and c, filling, connecting and fixing the integral faucet spliced in the step b by a splicing material to obtain the product faucet. The manufacturing method provided by the invention is simple, and the manufactured faucet is free from any pollutants.



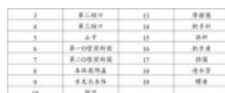
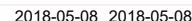
6. [Plastic water tap and its production method](#) CN101403441 2008-11-10 KAIPIING HUIERJIA HARDWARE PRODUCTS* 2009-04-08 2009-04-08

The invention discloses a plastic faucet and a manufacture method thereof; the plastic faucet comprises a body which is made from plastic materials; the body is internally provide a valve core seat used for installing a valve core; the outer end of the valve core extends to be connected with a handle; the body is provided with a water inlet pipe and a water outlet nozzle which are communicated with the valve core seat; the body is composed of an upper body and a lower body; the inner cavities of the upper body and the lower body are provided with ribs which are coordinated with each other; after the upper body and the lower body are combined, the ribs divide the cavities of the faucet into a cold water cavity, a hot water cavity, and a mixing cavity; the cold water cavity, the hot water cavity, and the mixing cavity are respectively provided with a through hole which can be communicated with the valve core; the lower body is respectively provided with a first connecting hole which is communicated with the cold water cavity and the hot water cavity; the first connecting hole is connected with the water inlet pipe; and the mixing cavity is provided with a second connecting hole which is communicated with the water outlet nozzle. The manufacture method thereof comprises the following steps in sequence: material selection, mold installation and compounding, plastic injection, jointing the upper body and the lower body and the coordinated ribs in the inner part thereof, surface treatment, and assembly of finished products. The plastic faucet manufactured by the method has the advantages of low production cost, good practicality and reliability.

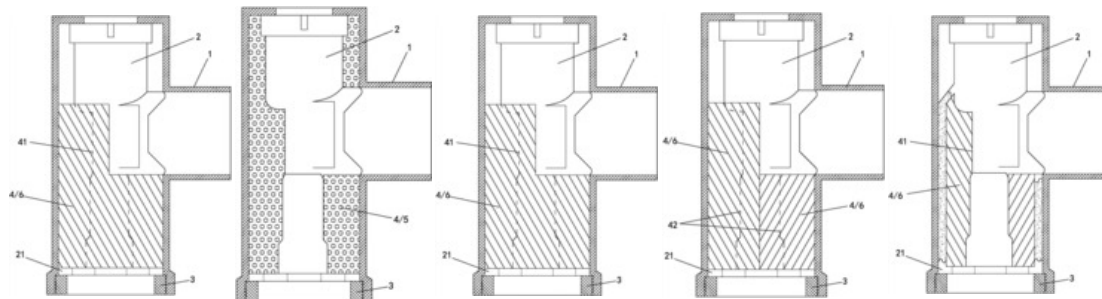
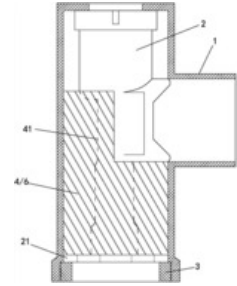


7. [Enhanced ceramic faucet and preparation method thereof](#) CN102182853 2011-02-28 RUNNER* 2011-09-14 2011-09-14

The invention relates to a faucet and provides an enhanced ceramic faucet and a preparation method thereof. The enhanced ceramic faucet is provided with a faucet body and fittings, wherein the faucet body is a faucet body which is coated on a metal water channel through ceramics; and the method comprises the following steps of: assembling a faucet water channel prepared from a lead-free copper material according to the requirement on the waterway of the faucet; putting the assembled faucet water channel into a mold for a faucet shell and fixing the faucet water channel; mixing ceramic mineral powder and an enhanced additive, adding water, stirring, filling the mixture into the mold for the faucet shell, molding, and taking the molded faucet out of the mold, wherein the mass ratio of the ceramic mineral powder to the enhanced additive is 1:(0.1-1.5); and applying ceramic glaze with antibacterial self-cleaning function to the faucet shell by using a glaze blowing method or a glaze pouring method so as to obtain a layer of modified ceramic glaze layer on the surface, baking in an oven, and finally assembling to obtain the enhanced ceramic faucet.



The utility model discloses an improve leading body of structure, this tap body include hollow faucet housing, set up paddle core pipe and lock solid in faucet housing is used for the lock solid ring of fixing the core pipe of paddling on the faucet housing tip, space internal fixation between faucet housing and the core of the paddling pipe is equipped with counterweight portion spare, and this tap body can promote whole tap feel, simple structure, and its production method can conveniently be assembled, reduces the assembly step, promotes production efficiency greatly.



11.

Injection molded faucet body and manufacturing method thereof

CN106065965

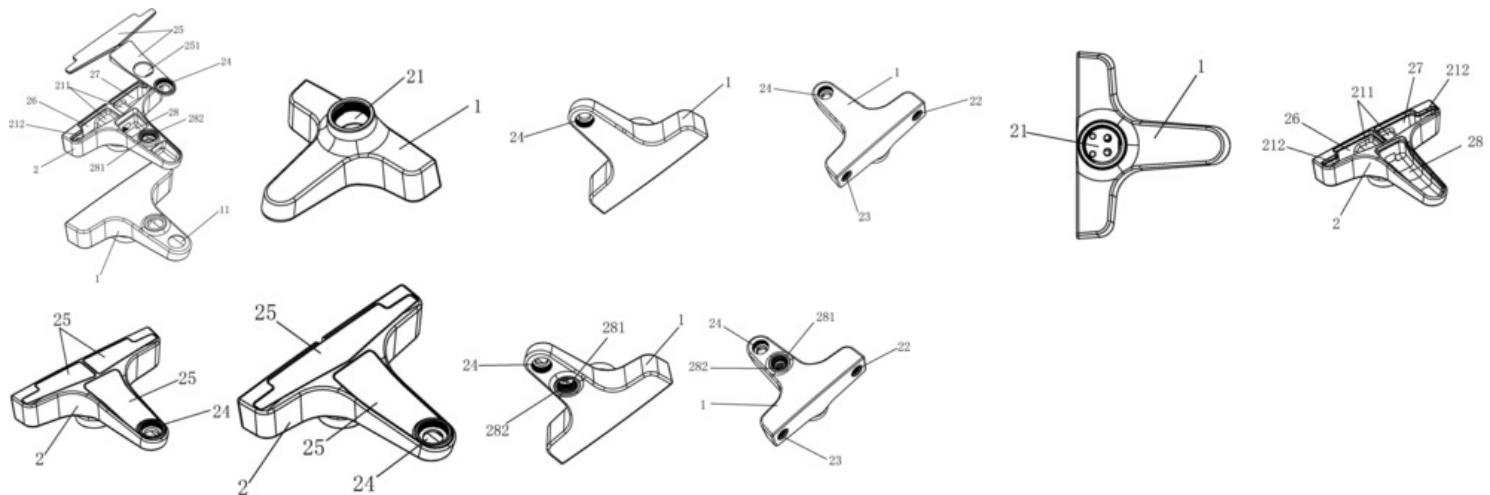
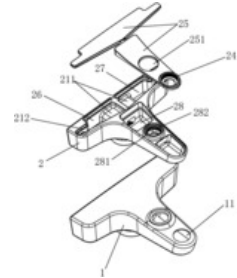
2016-07-28

KAIPING HANXIN SANITARY WARE*

2016-11-02

2016-11-02

The invention discloses an injection molded faucet body and a manufacturing method of the faucet body. The faucet body comprises an outer layer plastic shell and an inner layer plastic inner core; double-layer plastic injection molding is adopted, when the plastic inner core is molded in an injection molding manner, a valve element mounting groove, a cold water inlet, a hot water inlet, a cold water inlet groove, a hot water inlet groove and a water outlet groove are formed, the cold water inlet groove, the hot water inlet groove and the water outlet groove are each provided with a sealing cover plate so as to form a cold water inlet cavity, a hot water inlet cavity and a water outlet cavity, the plastic inner core is subject to secondary injection molding rubber coating to form a plastic shell, a splicing manner for manufacturing the faucet body is not needed, and an integral structure is truly achieved. Accordingly, the integral structure of the plastic inner core is stable and reliable, a manufacturing technology for forming groove bodies in different shapes and of different structures in the plastic inner core in the injection molding manner can be easily achieved, the plastic inner core does not need to be secondarily machined, the number of working procedures is reduced, and the production cost is reduced.



12.

Tap and manufacturing method thereof

CN103624501

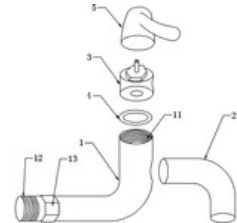
2013-12-13

HONG JIANSAN

2014-03-12

2014-03-12

The invention is applicable to the field of processing and manufacturing of taps and provides a tap and a manufacturing method thereof. The manufacturing method comprises the following steps: cutting two pipes as a water inlet pipe and a water outlet pipe of the tap according to the size of the tap needing to be manufactured; bending the head end of the water inlet pipe for a certain angle, wherein the head end of the water inlet pipe is used for accommodating a valve core; tapping the head end and the tail end of the water inlet pipe; forming a hole in a bent part, corresponding to a water outlet of the valve core, at the head end of the water inlet pipe; bending the water outlet pipe or directly welding the water outlet pipe to the hole; assembling and fixing the valve core in the head end of the water inlet pipe; installing a handle to obtain the tap. Compared with a conventional casting process, a pipe cutting welding process has the advantages that according to the manufacturing method, large smelter equipment is not needed, so that the production cost is reduced, and the tap is environment-friendly and energy-saving; moreover, a tap shell is formed by bending the pipes, and the tap has certain toughness, is good in anti-frost cracking effect, and is particularly applied to northern cold regions.



13.

Double-layer plastic hydrant main body and manufacturing method thereof

CN103161985

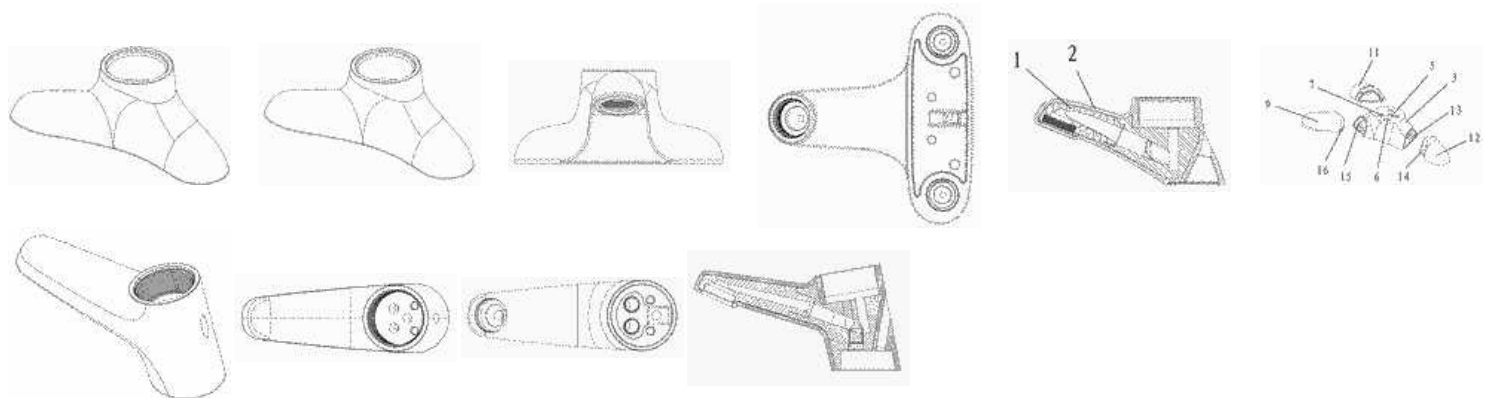
2013-03-13

KAIPING HANYANG SANITARY WARE*

2013-06-19

2013-06-19

The invention discloses a double-layer plastic hydrant main body which is composed of a double-layer structure and is divided into an inner plastic part and an outer plastic part. The inner plastic part is composed of at least two parts, and the outer plastic part is in an integrated structure. The inner plastic part comprises a main body valve core seat in an integrated structure, a water inlet channel and a water outlet channel are formed in the main body valve core seat, the water inlet channel and the water outlet channel are respectively comprise a wide channel and a narrow channel, the wide channel and the narrow channel are communicated and form a bending shape or an included-angle shape, and the water inlet channel and the water outlet channel are not communicated. The double-layer plastic hydrant main body is easy to produce and install, processing is also convenient, the inner plastic part of the double-layer plastic hydrant main body is not in an integrated structure, the inner plastic part can be formed only a few of parts need to be spliced and installed, and the main body valve core structure can be made out only the partition-type parts are used for splicing to form the inner plastic part.



14.

Manufacture method of plastic faucet body

CN101907192

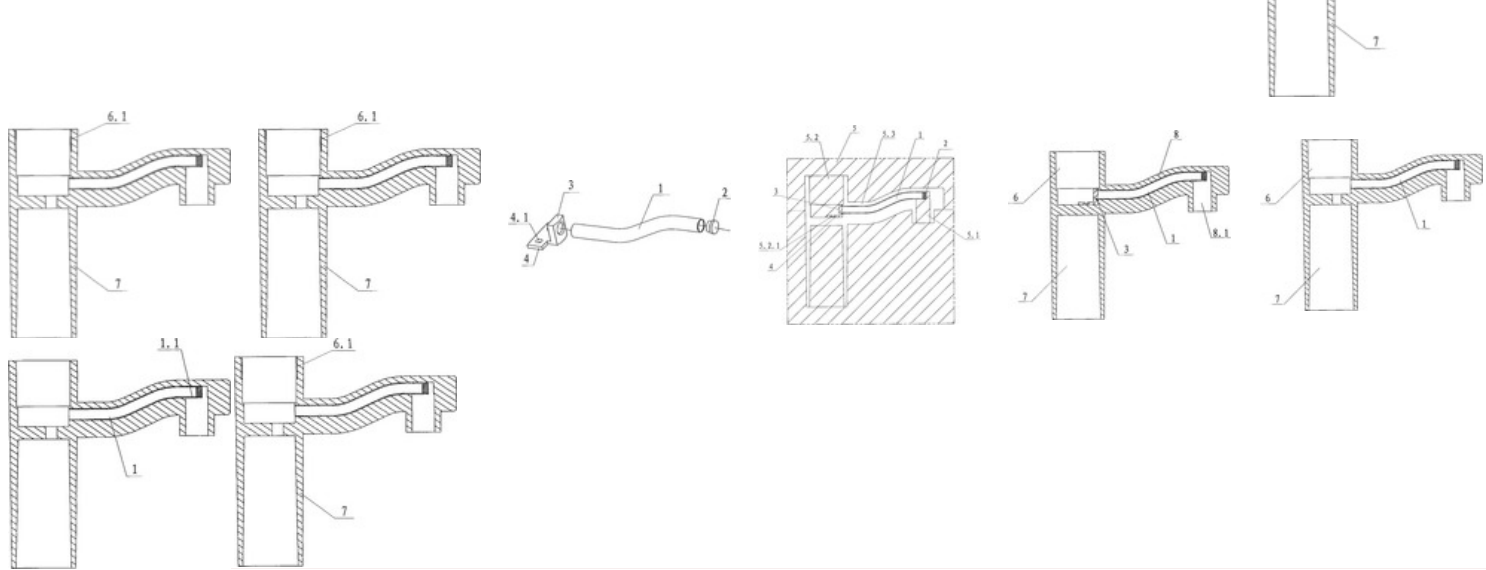
2010-07-15

NINGBO XINSHENG INDUSTRY & TRADE INDUSTRY*

2010-12-08

2010-12-08

The invention discloses a manufacture method of a plastic faucet body. The method comprises the following steps of: (1) machining a metal insert; (2) respectively plugging a first plug and a second plug at both ends of the metal insert; (3) positioning the metal insert in a die cavity for forming a drainage pipe in a die, abutting the first plug on a first male die and abutting the second plug on a second male die; (4) injecting and forming; (5) removing the second plug at the end part of the metal insert and digging a hole in a wall between a valve core seat and an intake pipe; (6) digging a drain hole in the outer periphery of one end of the metal insert arranged in the drain hole end of the drainage pipe; and (7) machining internal threads on the inner wall of the valve core seat. The manufacture method of the plastic faucet body is convenient to machine, can be used for machining a drainage pipe into an elbow, particularly a complicated-shaped elbow of a plastic faucet, and the drainage pipe of the machined plastic faucet body is watertight.



15.

Faucet and a manufacturing method

CN108006293

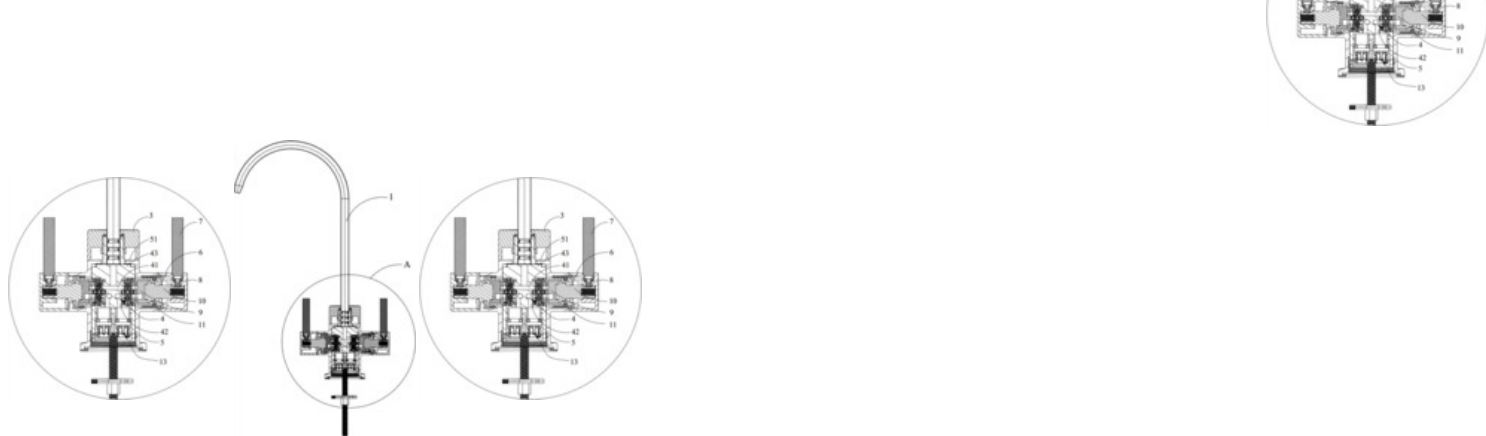
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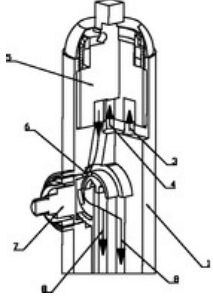
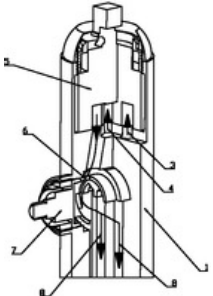
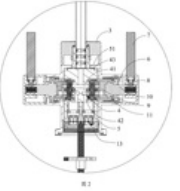
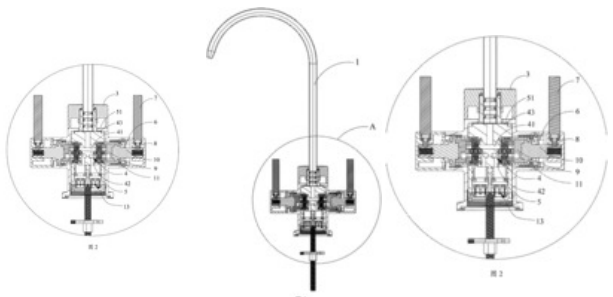
FOSHAN SHUNDE MIDEA WATER DISPENSER MANUFACTURING* MIDEA*

2018-05-08

2018-05-08

The present invention discloses a water faucet, comprising a waterway, a water inlet pipe and outlet pipe; water channels are provided within the spool chamber, an inlet passage and the outlet passage, an inlet passage and an outlet passage in communication both to cavity; water inlet pipe connected with the inlet passage, a water outlet pipe connected with the outlet passage; raceways of the outer surface is provided with a package layer. The present invention also discloses a method for producing a water faucet. The present invention and a manufacturing method employing the encapsulated design of the proposed principle of a water faucet, the faucet body housing to the wading in raceways separated by a material design, may be employed to ensure that the channels lead-free material.



16.	Enhanced biopolymer composite plastic tap and preparation method thereof	CN102182854	2011-02-28	RUNNER*	2011-09-14	2011-09-14
The invention relates to a tap, and provides an enhanced biopolymer composite plastic tap which is excellent in mechanical strength and stable in structure, and a preparation method thereof. The tap comprises a tap shell which is formed through injection molding of biopolymer and engineering plastic alloy materials, and matched components, wherein the matched components comprise a spool, a handle, a water outlet net, a sealing ring and a fastening screw. The method comprises the following steps of: performing injection molding of biopolymer and engineering plastic alloy materials to obtain a tap shell blank; coating a film on the surface of the molded tap shell blank; performing injection molding to obtain a water channel framework; filling reproducible biopolymer mixed materials in a cavity gap between the plastic water channel framework and the shell; taking the water channel framework out of the cavity, and assembling the water channel framework, the coated tap shell and the prepared tap matched components which are produced according to the conventional process into the enhanced biopolymer composite plastic tap in the conventional assembling mode.						
17.	Faucet main body for water mixing and dividing	CN203421221	2013-06-26	ZHOU JIANBING	2014-02-05	2014-02-05
The utility model discloses a faucet main body for water mixing and dividing. The faucet main body comprises a faucet outer shell which is provided with a cold water inlet channel and a hot water inlet channel. The faucet outer shell is provided with a cold-hot switch valve element which controls the water injection and water mixing of the cold water inlet channel and the hot water inlet channel. A cold-hot mixing water channel which is communicated with the cold-hot switch valve element is arranged in the faucet outer shell. The faucet outer shell is provided with a water dividing valve element which controls water dividing of the cold-hot mixing water channel. The faucet outer shell is provided with at least two water dividing channels which are communicated with the water dividing valve element. The cold-hot switch valve element and the water dividing valve element of the faucet main body for water mixing and dividing are arranged on the same faucet main body at the same time, and compared with an original split-mounted product, the faucet main body looks simpler and is more convenient to use.						
						
						
18.	Water purifier, faucet and manufacturing method thereof	WO2018099002	2017-05-19	FOSHAN SHUNDE MIDEA WATER DISPENSER MANUFACTURING* MIDEA*	2018-06-07	2018-06-07
A faucet, the faucet comprising a water channel (4), a water inlet pipe (13) and a water outlet pipe (1); the water channel having disposed therein a valve core cavity, a water inlet channel (42) and a water outlet channel (41). The water inlet channel and the water outlet channel are both in communication with the valve core cavity. The water inlet pipe is connected to the water inlet channel, and the water outlet pipe is connected to the water outlet channel. An outer surface of the water channel is provided with an encapsulation layer. The present invention also comprises a water purifier having said faucet, and a manufacturing method for said faucet. In the present faucet and water purifier using a manufacturing principle of encapsulation, a housing of the faucet body and the water channel use different materials, ensuring cleanliness of the water channel.						
						
						
19.	Main body of faucet, manufacturing method of main body of faucet and application thereof	CN102213336	2011-05-24	KAIPING HANYANG SANITARY WARE*	2011-10-12	2011-10-12
The invention discloses a main body of a faucet. The main body is of a two-layer structure, namely an inner plastic part and an outer plastic part, wherein the inner plastic part is composed of at least two components, the outer plastic part is an integrated type structure, the inner plastic part is arranged in the outer plastic parts and intimately contact with the outer plastic parts. By adopting the two-layer structure, the main body of the faucet is easy to produce, install and process, and is made of a pure plastic material, is non-toxic and non-contaminated, each inner plastic parts are coordinately installed with each other and then are placed in a die for a secondary injection molding so as to form a whole main body of the faucet; and the whole main body of the faucet has good sealing performance and has small possibility of leaking water.						
20.	Explosion-proof tap that splits of disconnect-type	CN204717084	2015-06-19	YANG XIANGRONG	2015-10-21	2015-10-21
The utility model relates to a tap field, in particular to explosion-proof tap that splits of disconnect-type, including the inside tap body that can install the core print seat, the tap body include separable tap shell and tap base, tap shell and tap base phase-match, the tap base on be equipped with water inlet and delivery port, water inlet and delivery port be linked together the tap base still be equipped with the T type and consolidate the horizontal bar, the tap shell still be equipped with the through-hole, through-hole and phase-match the same with the water inlet diameter, the utility model discloses rational in infrastructure, the tap body of separation has replaced original integral type seal structure for the structure of tap body becomes simply, consolidates the horizontal bar and still be equipped with the T type at the tap base, can effectually prevent to burst, reduces reliance, control and reduction in production cost, the processing simple advantage of traditional integral type seal structure to foundry technology level and equipment.						
21.	Production method of plastic water faucet	CN101788070	2010-03-12	ZHUOXING HE	2010-07-28	2010-07-28
The invention discloses a production method of a plastic water faucet, which is characterized by comprising the following steps that: material selection: a good plastic raw material is selected and is delivered to an injection molding machine to be heated, so the plastic raw material is smelted for standby; a die is fixed and assembled; injection molding and formation are performed; contact surfaces of an upper body and a lower body are heated by a hot plate, so a meltdown state is produced nearby the contact surfaces, and then the upper and the lower bodies are joined; surface treatment: convex edges or burr nearby the connection surfaces are removed, and then paint is sprayed or the electroplating is carried out; and assembling of finished products: a valve core, a water inlet pipe and a water outlet nozzle are installed inside a water faucet main body. The method is characterized in that: contact surfaces of the upper and the lower bodies are heated by the hot plate only under the condition that the temperature nearby the contact surfaces of the upper and the lower bodies is more than the room temperature. Therefore, moisture remained on the upper and the lower bodies can be removed, and the moisture is prevented from being vaporized during the heating process not to generate small air pores on the meltdown contact surfaces, and the air bubbles are prevented from existing on the joint surfaces of the upper and the lower bodies so as to ensure the adequate and firm connection of the upper and the lower bodies.						

22.	Water tap	CN205715895	2016-06-15	TAIZHOU JIEXING SANITARY WARE*	2016-11-23	2016-11-23
The utility model discloses a water tap, including outlet pipe and inlet tube, be provided with the connecting pipe on the outlet pipe lateral wall, the connection can be dismantled on the lateral wall of connecting pipe to the inlet tube, outlet pipe, connecting pipe and inlet tube inside wall form the passageway that supplies water and flow, and its technical scheme main points make the inlet tube and go out buckling of water piping connection all to expose the tip at inlet tube and outlet pipe during shaping, reduce the length of the interior continuous passageway of inlet tube and outlet pipe to reduce the length that the mould side is loosed core, make processing water tap's mould structure simplify, the cost of the used mould of reduce production water tap, and then reached the effect that reduces the used cost of processing water tap.						
23.	Reinforced-type metal-like plastic water tap and manufacturing method thereof	CN102155576	2011-02-28	RUNNER*	2011-08-17	2011-08-17
The invention discloses a reinforced-type metal-like plastic water tap and a manufacturing method thereof, and relates to a water tap. The reinforced-type metal-like plastic water tap comprises an ABS (acrylonitrile-butadiene-styrene) plastic outer shell and matched components, wherein the matched components comprise a valve plug, a handle, a water outlet net, a seal ring and a fastening screw. The method is characterized by combining the water channel of the water tap according to the water way requirement of the water tap; placing the water channel in a mold of the outer shell of the water tap, and fixing; mixing ceramic mine powder with a reinforcing additive agent, adding water, stirring, filling the mixture of the ceramic mine powder and the reinforcing additive agent into the mold of the outer shell of the water tap, taking out from the mold after forming, mounting in the plastic outer shell of the water tap, and assembling the prepared matched components of the water tap which are manufactured according to a normal assembling method and comprise the valve plug, the handle, the water outlet net, the seal ring and the fastening screw into the reinforced-type metal-like plastic water tap according to a normal assembling method, wherein the mass ratio of the ceramic mine powder to the reinforced additive agent is 1:(01-15).						
24.	Faucet body mixing and dividing water	CN103291965	2013-06-26	ZHOU JIANBING	2013-09-11	2013-09-11
The invention discloses a faucet body mixing and dividing water. The faucet body mixing and dividing the water comprises a faucet outer shell which is provided with a cold water inlet channel and a hot water inlet channel, a cold-hot switch valve core is arranged on the faucet outer shell and controls water inflow and mixing in the cold water inlet channel and the hot water inlet channel, a cold-hot mixing water channel communicated with the cold-hot switch valve core is arranged in the faucet outer shell, a water dividing valve core is further arranged on the faucet outer shell and controls water dividing in the cold-hot mixing water channel, and the faucet outer shell is further provided with at least two water dividing channels communicated with the water dividing valve core. Due to the fact that the cold-hot switch valve core and the water dividing valve core of the faucet body mixing and dividing the water are simultaneously installed on a same faucet body, and compared with an original product installed in a separated mode, the faucet body mixing and dividing the water looks more concise and is more convenient to use.						
25.	Plastic-steel combined water tap	CN2625677	2003-05-26	HE TANGGUANG	2004-07-14	2004-07-14
The utility model discloses a plastic and steel combined type water tap, which is characterized in that the water tap has a main body internal structure which is provided with an outer injection molding layer in the manner of connecting pipes with an inlet function and an outlet function of cool water and hot water. Without any needs applying a traditional complicated polluting whole cast arts, the water tap has easy production and low production cost; wherein, the main body internal structure is made of stainless steel or other connecting pipe materials containing no harmful elements like lead which reaches environmental protection standard strictly controlled in US and European countries and thoroughly solves the hard problem of water pollution caused by the direct touch of water by zinc and copper water taps which is made of materials containing minor lead element in traditional arts, which is suitable for large size production.						