

commentletters

From: Ralph Gray <ralphgray4@gmail.com>
Sent: Sunday, November 29, 2015 7:28 AM
To: commentletters
Subject: Comment Letter -Urban Water Conservation Workshop
Attachments: Water Conservation Valve.jpg; WCV-ghost-email 1909K.pdf; Sequence of Operations.doc



Much emphasis has, rightly, been placed on reducing water usage per flush in steps down to the current 1.2 USGal. per flush leading to what can best be described as flushtration. Considerable ingenuity has gone into sourcing this water from water that would ordinarily be wasted. More than 50 patents have been filed - some of marvelous complexity requiring pumps and remote reservoirs. They all have one common element- none have achieved commercial acceptance. My Water Conservation Valve (developed with the financial support of Alberta Innovates) has a high chance of success (because it is finally located where it needs to be - next the faucets/shower) and I invite California valve manufactures/plastic molders to undertake production under license. The attached show how simple it is to DIY install and the sequence of operations. No detail on the internals is being released at this time as Patent is Pending.



HOT

TOILET

COLD

WATER CONSERVATION VALVE

Shift Setting 75 F 28 C

ACME WATER CONSERVATION PRODUCTS®

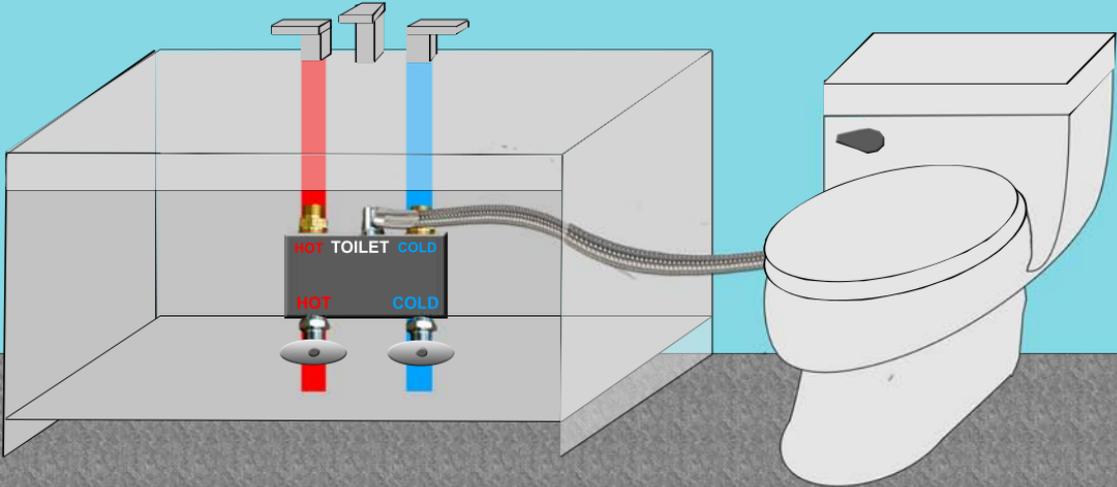
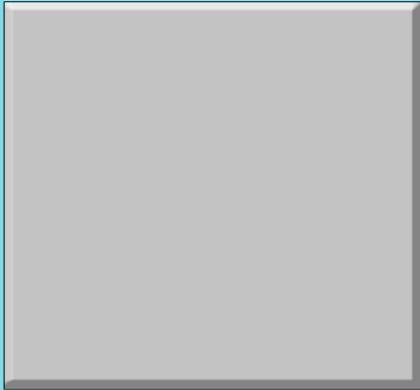
Grande Prairie Alberta Canada

Patented: xxxxx Canada xxxxxxUSA

HOT

COLD

17 4:38P



RALPH GRAY PROP.

Water Conservation Project

**A half-century of metallurgical, mechanical and Fluid Power Systems Design
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The sequence of operations is as follows :

1. Flush the toilet. The ballcock opens and the toilet tank begins to refill.
2. Warmagic is in its rest state. The actuator is cool and the spool shifted to flow cool water from the HOT line.
3. HOT water reaches the actuator and the actuator strokes shifting the spool. Cold water from the COLD line flows to finish filling the tank just as before.
4. User may run "HOT" water at any time, temper it with cold and wash with WARM flowing water.
5. The ballcock closes. The lines cool and Warmagic relaxes to rest state.

Yours

A handwritten signature in black ink, appearing to read 'Ralph Gray', written in a stylized, cursive script.