

DIVISION DE NUEVAS CREACIONES

RADICACIÓN EXPEDIENTE No 03-008748

EL EXTRACTO DE LA PRESENTE SOLICITUD DE **PATENTE DE INVENCION**
FUE PUBLICADO EN LA GACETA DE PROPIEDAD INDUSTRIAL No **543** DE
FECHA **01** DE **SEPTIEMBRE DE 2004** EL TERMINO HABIL EÑALADO POR LA
LEY EXPIRA EL **29** DE **NOVIEMBRE DEL 2004**

NOTA: Dentro del plazo de los seis (6) meses siguientes a partir de la fecha de publicación en la gaceta de Propiedad Industrial, deberá solicitar y cancelar el examen de patentabilidad so pena de que la solicitud caiga en abandono, de acuerdo con lo establecido en el Artículo 44 de la Decisión 486/2000.

SE PRESENTARON OPOSICIONES POR PARTE DE TERCEROS.

SI _____ NO___ __X___

Bogotá D.C, SEPTIEMBRE DE 2007



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		May 22, 1998 *	Feb 08, 1999	Mar 03, 2000	Jan 24, 2001	Mar 26, 2002	Feb 04, 2003 *
		May 23, 1998	Feb 24, 1999	Mar 04, 2000	Feb 01, 2001 *	Apr 02, 2002 *	
		Dec 12, 1998 *	Apr 27, 1999	Apr 12, 2000 *	Feb 02, 2001 *	May 26, 2002 *	
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					Aug 05, 2001 *	Dec 16, 2002 *	
					Oct 31, 2001 *		
					Dec 13, 2001 *		

Royal Flushometer Features

General Product Information

Royal® Model Index

Fixture	Model	Fixture Type	Spud Coupling
Royal Exposed Water Closet Flushometers			
Water Closet	<u>100</u>	Top Spud	1-1/2"
	<u>110/111</u>	Top Spud	1-1/2"
	<u>113</u>	Top Spud	1-1/2"
	<u>114</u>	Top Spud	1-1/2"
	<u>115</u>	Top Spud	1-1/2"
	<u>116</u>	Top Spud	1-1/2"
	<u>120</u>	Back Spud	1-1/2"
	<u>121</u>	Back Spud	1-1/2"
	<u>122</u>	Back Spud	1-1/2"
Royal Concealed Water Closet Flushometers			
Water Closet	<u>140</u>	Exposed Back Spud	1-1/2"
	<u>142</u>	Exposed Top Spud	1-1/2"
	<u>143</u>	Concealed Back Spud	1-1/2"
	<u>144</u>	Concealed Back Spud	1-1/2"
	<u>150</u>	See Spec Sheet	1" IPS Outlet
	<u>152</u>	Concealed Back Spud	1-1/2"
	<u>153</u>	Exposed Top Spud	1-1/2"
	<u>154</u>	Exposed Back Spud	1-1/2"
Royal Exposed Urinal Flushometers			
Urinals	<u>180</u>	Exposed Top Spud	1-1/4"
	<u>186</u>	Exposed Top Spud	3/4"
Royal Concealed Urinal Flushometers			
Urinals	<u>190</u>	Concealed Back Spud	1-1/4"
	<u>192</u>	Exposed Top Spud	1-1/4"
	<u>195</u>	Concealed Back Spud	3/4"
	<u>197</u>	Exposed Top Spud	3/4"
Royal Adjustable Ground Joint Retrofit Flushometers			
Water Closet	<u>112 XD</u>	Top Spud	1-1/2"
Urinal	<u>188 XD</u>	Top Spud	3/4"
Royal Retrofit Flushometers with Adjustable Tailpiece for Cambridge Brass Teck Supply Stop			
Water Closet	<u>112 XDT</u>	Top Spud	1-1/2"
Urinal	<u>188 XDT</u>	Top Spud	3/4"
Royal Squat Toilet Flushometers			
Valve Type	Model	Fixture	Spud Coupling
Exposed	<u>136</u>	Top Inlet	-
	<u>137</u>	Back Inlet	-

Concealed	<u>139</u>	Back Inlet	-
Royal Service Sink Flushometers			
Exposed	<u>117</u>	Exposed Top Spud	1-1/2"
Concealed	<u>155</u>	Exposed Top Spud	1-1/2"
Royal Foot Pedal Water Closet Flushometers			
Exposed	<u>310</u>	Exposed Top Spud	1-1/2"
	<u>312</u>	Exposed Top Spud	1-1/2"
Concealed	<u>313</u>	Concealed Back Spud	1-1/2"
	<u>318</u>	Exposed Back Spud	1-1/2"
Royal Foot Pedal Urinal Flushometers			
Exposed	<u>320</u>	Exposed Top Spud	3/4"
	<u>323</u>	Concealed Back Spud	3/4"
Concealed	<u>343</u>	Concealed Back Spud	1-1/4"

Relevant links

For information on Valve Flushing Volumes and Available Variations, refer to the valve model specification sheets listed above.

Sensor Operated Royal Flushometers	OPTIMA FLUSHOMETERS
	OPTIMA PLUS FLUSHOMETERS
Hydraulically Operated Royal Flushometers	HYDRAULIC FLUSHOMETERS
Royal Flushometers for Prison Fixtures	PRISON FLUSHOMETERS
Royal Flushometer Variations & Accessories	ROYAL ACCESSORIES
Complete List of Valve Accessories & Variations	ALL ACCESSORIES

Royal Installation, Maintenance & Repair Information

Royal Valve Installation Instructions (Includes information on the Installation and Operation of the product)	Exposed Flushometers
	Concealed Flushometer
Royal Valve Repair Parts and Maintenance Guide (Includes information on the Care, Maintenance and Troubleshooting of the product)	Maintenance Guide

Translated Documents

Spanish (Español)

Specification Sheets (Especificaciones)

[110/111 Rev 0](#) [186 Rev 0](#)

Installation Instructions (Instrucciones De Instalción)	Exposed Flushometers
Maintenance Guide (Guía de Mantenimiento)	Maintenance Guide

French (Français)

Specification Sheets (Spécifications)

[110/111 Rev 0](#) [186 Rev 0](#)

Installation Instructions (Directives D'Installation)
Maintenance Guide (Guide D'Entretien)

Exposed Flushometers
Maintenance Guide

Contacting Technical Support

E-mail Technical Support Services / Installation Engineering
Department
Phone Technical Support Services / Installation Engineering
Department

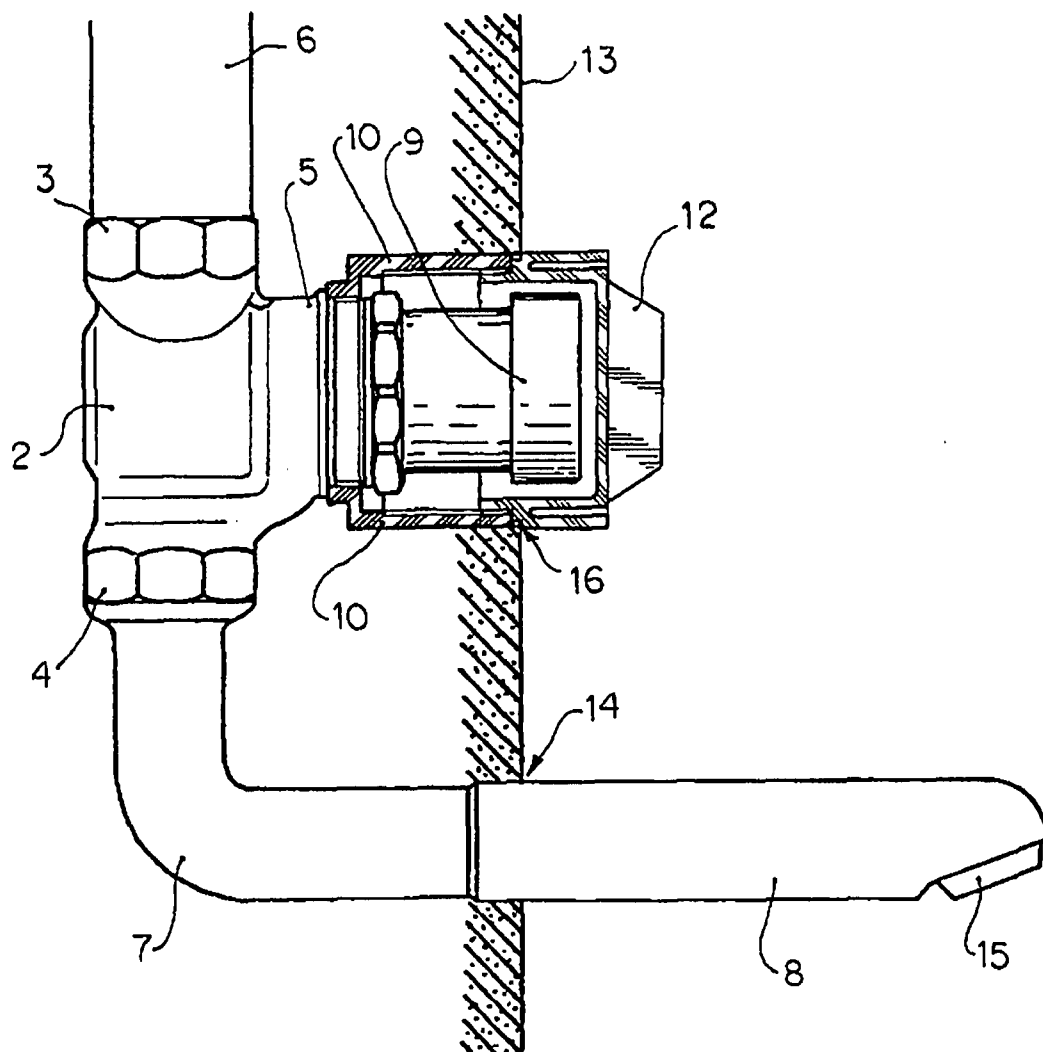
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(1-888-756-2614)

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FIG. 2





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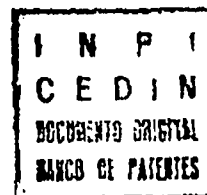
(11) (21)

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(22) Data de Depósito: 29/10/93

(43) Data de Publicação: 27/06/95 (RPI 1282)

(51) Int Cl⁵:
F16K 5/00



(54) Título: Conjunto de acoplamento, instalação hidráulica e processo de montagem de um conjunto de acoplamento

(71) Depositante(s): Docol Indústria e Comércio de Artigos Hidráulicos e Metais Sanitários Ltda. (BR/SC)

(72) Inventor(es): Ingo Doubrawa

(74) Procurador: Dannemann, Siemsen, Bigler & Ipanema Moreira

(57) Resumo: A presente invenção refere-se a um conjunto de acoplamento (10,11) especialmente utilizado em válvulas hidráulicas usadas em mictórios, banheiros ou lavatórios públicos e coletivos onde são frequentemente observados atos de furto ou vandalismo. Além disto, a invenção refere-se a uma instalação hidráulica (1) para ser usada nestes locais públicos incorporando o referido conjunto de acoplamento (10,11) e ao processo de montagem desse conjunto de acoplamento (10,11). A instalação (1) compreende uma válvula hidráulica em forma de "T", dotada de uma carcaça (2) apresentando primeira, segunda e terceira aberturas cilíndricas (3,4,5) e atuada por um botão de acionamento (9), a referida válvula cooperando com o conjunto de acoplamento (10,11) em foco.

FIG. 3

