

Title (en)
A CONCEALED FLOW REGULATOR

Title (de)
VERBORGENER DURCHFLUSSREGLER

Title (fr)
RÉGULATEUR D'ÉCOULEMENT DISSIMULÉ

Publication
EP 3208390 A1 20170823 (EN)

Application
EP 16000413 A 20160219

Priority
EP 16000413 A 20160219

Abstract (en)
Disclosed is a concealed flow regulator, which comprises a housing portion (100) and a diversion device (200), the housing portion is disposed with a mutation cavity (110) and a suction passage (120), the diversion device (200) is used to divide the water flowing, the divided water enters the mutation cavity (110) and negative pressure generates, air at the outer side is sucked in under the action of the negative pressure through the suction passage (120) and the air and the water are mixed to generate bubble water; the external revolution surface of the housing portion (100) is disposed with external thread (150), the housing portion (100) is threaded to the water supplying opening (700) via the external thread (150); the suction passage (120) has an internal port (121) faced to the mutation cavity (110) and an external port (122) at the external revolution surface, an air flowing clearance is formed between the housing portion (100) and the inner wall of the water supplying opening (700), the air flowing clearance is connected to the external port, so that air can enter the mutation cavity (110) through the air flowing clearance, the external port and the internal port.

IPC 8 full level
E03C 1/084 (2006.01); **E03C 1/086** (2006.01)

CPC (source: EP)
E03C 1/084 (2013.01); **E03C 1/086** (2013.01)

Citation (applicant)
• CN 202298777 U 20120704 - NEOPERL GMBH
• CN 202139650 U 20120208 - NEOPERL GMBH

Citation (search report)
• [XA] WO 2013162359 A1 20131031 - HENRI PETERI BEHEER BV [NL]
• [A] DE 10312856 A1 20041007 - WILDFANG DIETER GMBH [DE]
• [A] WO 2011108023 A1 20110909 - VAITAL COPORATION [JP], et al
• [A] US 2016024769 A1 20160128 - ZOLLER UWE [DE]
• [A] DE 202013002189 U1 20140611 - NEOPERL GMBH [DE]
• [A] US 4313564 A 19820202 - SHAMES SIDNEY J, et al

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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