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(54) **Title:** WATER CIRCULATION DEVICE AND WATER CIRCULATION SYSTEM

(54) 发明名称: 一种水循环装置和水循环系统

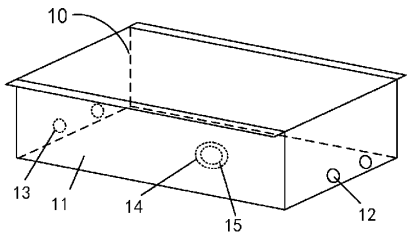

图 1

(57) **Abstract:** A water circulation device (10) and a water circulation system, which belong to the field of water recycling. The water circulation device (10) is arranged in a drainage channel (30) and located below a drainage channel cover (20), comprising: a water storage tank (11) which is configured to collect water that has been filtered by the drainage channel cover (20), and has a first side wall and a second side wall opposite each other; first connecting ports (12) and second connecting ports (13), which are respectively arranged at corresponding positions on the first side wall and the second side wall, and are configured to connect to connection pipes (40), so as to connect a plurality of water storage tanks (11), allowing the collected water to flow between the water storage tanks (11); a drainage port (14) which is arranged on a bottom wall of the water storage tank (11) and configured to drain the collected water; and a drainage plug (15) which is configured to be used in cooperation with the drainage port (14), thus controlling the drainage of the collected water. Collection and utilization of rainwater is implemented by means of the water circulation device (10), thus achieving water circulation; and by accommodating part of excessive rainwater, significant drainage of water caused by rainstorms is reduced, thus reducing the probability of flood occurrence.

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本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种水循环装置（10）和水循环系统，属于水循环利用领域。水循环装置（10）设置于排水渠（30）内、位于排水渠盖（20）下方，包括：水储存器（11），用于收集经排水渠盖（20）过滤的水，具有相对的第一侧壁和第二侧壁；第一连接口（12）和第二连接口（13），分别设置于第一侧壁和第二侧壁的对应位置，用于与连接管（40）连接，以连接多个水储存器（11），使收集水在水储存器（11）之间流动；排水口（14），设置于水储存器（11）的底壁，用于排放收集水；排水塞（15），用于与排水口（14）配合使用，以控制收集水的排放。通过水循环装置（10）对雨水进行收集利用，实现水循环，并且通过收容部分过量的雨水，减少暴雨所带来的大量水排放，从而降低洪涝发生的几率。