

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2023 年 3 月 16 日 (16.03.2023)



(10) 国际公布号
WO 2023/035644 A1

(51) 国际专利分类号:
E03F 5/10 (2006.01) *E03B 3/02* (2006.01)

(21) 国际申请号: PCT/CN2022/091725

(22) 国际申请日: 2022 年 5 月 9 日 (09.05.2022)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202111058587.8 2021 年 9 月 10 日 (10.09.2021) CN

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(54) **Title:** HIGH-STRENGTH ROAD FOR WATER RESOURCE REGULATION SYSTEM IN RESPONSE TO CLIMATE CHANGE

(54) 发明名称: 因应气候变迁水资源调适系统的高强度道路

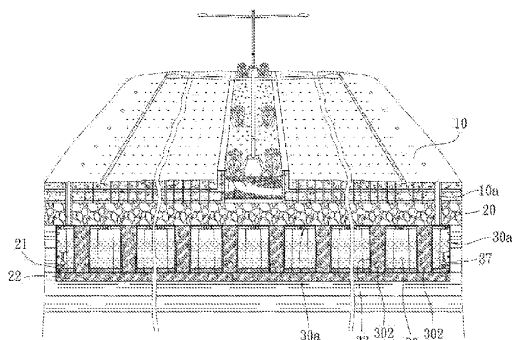


图 1

(57) **Abstract:** A high-strength road for a water resource regulation system in response to climate change. An underground structural space is formed by a structural system formwork, which is provided with a hollow unit body, by means of grouting and solidifying concrete grout, and the high-strength road is formed by paving a road or a pavement over the underground structural space; the hollow unit body is at least provided with a structural formwork and is formed by means of combining a plurality of side slabs; an upper surface of the formwork is provided with a plate, and the plate is provided with a through hole and at least one through pipe; and after the structural system formwork and the side plates are combined and paved, the concrete grout is grouted and solidifies to form the underground structural space with a high support strength. In this way, drainage system infrastructure such as traditional road drainage ditches and drainage ditch covers is replaced. A water storage and drainage system uses reserved holes or bores in the road, or uses a permeable pavement or roadside water pumping and draining holes to direct rainwater down and store same in the underground space, so as to effectively store water and prevent regional water accumulation, and a larger drainage space system is provided. A new city appearance having wider, safer and more attractive roads can be planned without drainage ditches being

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本国际公布：

- 包括国际检索报告(条约第21条(3))。
- 包括经修改的权利要求(条约第19条(1))。

provided, and same also serves as an optimal method for water resource regulation, which can prevent mosquito breeding and malodor of a traditional drainage ditch, thereby thoroughly ameliorating environmental pollution and disasters brought about by traditional road construction.

(57) 摘要：一种因应气候变迁水资源调适系统的高强度道路，设有中空单元体的结构系统模板经混凝土浆灌注凝固结合成地下结构空间，于地下结构空间上方铺设为道路或铺面而成，中空单元体至少设有一片结构模板及多个侧板结合而成；模板上表面设有板片，于板片上设有透孔及至少一通管，当结构系统模板与侧板结合铺设后灌注混凝土浆，凝固后形成具有高支撑性强度的地下结构空间；借此，取代如传统道路的排水沟及水沟盖等排水系统基础建设，并利用道路预留孔或钻孔洞或透水铺面或由路旁抽排水孔下导雨水后储存于地下空间的储水与排水系统，有效的储水防范区域性积水，提供更大的排水空间系统，不设置排水沟时则能规划出使道路变得更宽、更安全美观的都市更新容貌，同时作为水资源调适的最佳方法，能防止传统排水沟蚊虫孳生及恶臭，彻底改善传统道路建设带来的环境污染与灾害等。