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**(54) Title (EN):** CULTIVATION SAND AND PREPARATION METHOD THEREOF

**(54) Title (FR):** SABLE DE CULTURE ET SON PROCÉDÉ DE PRÉPARATION

**(54) Title (ZH):** 一种种植砂及其制备方法

**(57) Abstract:**

**(EN):** Disclosed are a cultivation sand and a preparation method thereof. The cultivation sand comprises the following components in parts by mass: 100 parts of a solid waste; 0-30 parts of a pore-forming agent; 5-15 parts of a plasticizer; 0.5-2 parts of a water-reducing agent; and 15-30 parts of water. The cultivation sand is prepared by using a solid waste as a material, thereby effectively using the solid waste, and reducing material costs. Moreover, the cultivation sand has a porous structure capable of retaining water and fertilizers, thereby preventing water and fertilizer loss.

**(FR):** La présente invention concerne un sable de culture et son procédé de préparation. Le sable de culture comprend les constituants suivants en parties en masse : 100 parties de déchets solides ; de 0 à 30 parties d'un agent de formation de pores ; de 5 à 15 parties d'un plastifiant ; de 0,5 à 2 parties d'un agent fluidifiant ; et de 15 à 30 parties d'eau. Le sable de culture est préparé à l'aide de déchets solides en tant que matériau, ce qui permet d'utiliser efficacement les déchets solides, et de réduire les coûts de matériau. De plus, le sable de culture a une structure poreuse apte à retenir l'eau et des engrais, empêchant ainsi une perte d'eau et d'engrais.

**(ZH):** 公开了一种种植砂及其制备方法,种植砂包括按质量份数计的:固体废弃物100份、造孔剂0-30份、增塑剂5-15份、减水剂0.5-2份和水15-30份。该种植砂利用固体废弃物为原料制备,有效利用了固体废弃物,降低了原料成本,并且具有多孔结构,有保水保肥性能,可防止水分与肥料流失。

### **International search report:**

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### **Declarations:**

Declaration made as to the identity of the inventor (PCT Rules 4.17(i) and 51bis.1(a)(i))

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America