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202311245118.6 2023年9月25日 (25.09.2023) CN
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(54) Title: TISSUE DISSOCIATION SYSTEM AND TISSUE DISSOCIATION METHOD

(54) 发明名称: 一种组织解离系统及组织解离方法

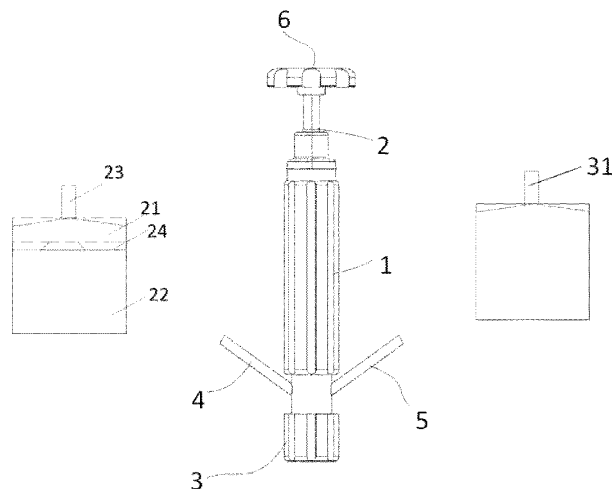


图 8

(57) Abstract: Disclosed are a tissue dissociation system and a tissue dissociation method. The tissue dissociation system comprises a tissue dissociator, a culture fluid bag, a sterile culture bag, and a tube welder. Specifically, the method comprises: placing a tissue to be dissociated in a sealed environment formed by a base and a sliding sleeve, and then using the tube welder to connect the culture fluid bag and the sterile culture bag to a dissociation operation chamber of the tissue dissociator; driving a dissociation piston rod to perform dissociation; after dissociation is completed, squeezing the culture fluid bag, such that the remaining culture fluid in the culture fluid bag flushes the dissociation operation chamber, and the dissociated tissue is flushed into the sterile culture bag; and finally using the sterile culture bag for culture. The entire dissociation process and the tissue transfer process after dissociation are both carried out in a closed environment, so that it is not necessary to provide a separate sterile environment for the dissociation process or the

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根据细则4.17的声明:

- 关于发明人身份(细则4.17(i))
- 关于申请人有权申请并被授予专利(细则4.17(ii))
- 关于申请人有权要求在先申请的优先权(细则4.17(iii))

本国际公布:

- 包括国际检索报告(条约第21条(3))。

transfer process, thus making tissue dissociation more convenient and reducing environmental constraints, and also eliminating the risk of contamination of the dissociated tissue.

(57) 摘要: 公开了一种组织解离系统及组织解离方法, 该组织解离系统包括组织解离器、培养液袋和无菌培养袋、接管机, 具体地, 该方法通过将待解离组织放在底座与滑套形成的密封环境内, 然后利用接管机将培养液袋和无菌培养袋分别与组织解离器的解离操作腔连通; 并驱动解离活塞杆进行解离; 解离完成后挤压培养液袋, 使得培养液袋中剩余的培养液对解离操作腔进行冲洗并将解离后的组织冲入无菌培养袋中, 最后利用无菌培养袋进行培养。整个解离过程, 以及解离之后的转移组织过程均在密闭环境中进行, 使得解离过程或转移过程都无需单独提供无菌环境, 使得组织的解离更加的方便减少环境的约束, 同时使得解离后的组织免除了被污染的风险。