

**TITLE OF INVENTION: [TISSUE DISSOCIATION SYSTEM AND TISSUE
DISSOCIATION METHOD]**

ABSTRACT

The present application discloses a tissue dissociation system and a tissue dissociation method. The tissue dissociation system includes a tissue dissociator, a culture fluid bag, a sterile culture bag, and a tube connecting machine. Specifically, the method places the tissue to be dissociated in a sealed environment formed by the base and the sliding sleeve, then uses the tube connecting machine to separately connect the culture fluid bag and the sterile culture bag with a dissociation chamber of the tissue dissociator, and drives a dissociation piston rod for to perform dissociation. After dissociation is completed, the culture fluid bag is squeezed so that the remaining culture fluid in the culture fluid bag flushes the dissociation chamber and flushes the dissociated tissue into the sterile culture bag, and finally the sterile culture bag is used for culture. In the present application, the entire dissociation process, as well as the subsequent tissue transfer process, are carried out in a closed environment, so that the dissociation process or the transfer process does not require a separately provided sterile environment, making tissue dissociation more convenient with reduced environmental constraints, while ensuring that the dissociated tissue is free from the risk of contamination.

[FIG. 8]