FP:(Zinexts Life Science)

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1. 109136061 SAMPLE CONTAINER HEATING DEVICE FOR NUCLEIC ACID EXTRACTION EQUIPMENT AND NUCLEIC ACID EXTRACTION EQUIPMENT CN - 04.01.2019

Int.Class C12M 1/00 **Appl.No** 201710453389.9 **Applicant** SHANDONG JIANWEI BIO-TECH CO., LTD. **Inventor** ZHENG DONG

The invention relates to a sample container heating device for nucleic acid extraction equipment and the nucleic acid extraction equipment. The sample container heating device comprises a driving mechanism and a heating structure used for being installed on an assembling base so that a sample container can be heated, wherein the position of the heating structure can be adjusted through the drivingmechanism in the height direction to have an idle position and a working position, at the idle position, the heating structure is retracted relative to the assembling base, at the working position, the heating structure protrudes relative to the assembling base, and a heating groove corresponding to the bottom shape of the sample container is formed in the heating surface of the heating structure. When the sample container heating device is assembled on the assembled base, as the heating groove corresponding to the bottom shape of the sample container is formed in the heating surface, corresponding to the sample container, of the heating structure, a face heating mode can be achieved between the heating groove and the bottom of the sample container accordingly, samples in the sample container can be evenly heated, and the good heating effect is achieved.

2. 3653697 SOUND WAVE HOMOGENISING MODULE AND BIOLOGICAL SAMPLE PREPARATION SYSTEM EP - 20.05.2020

Int.Class C12M 1/42 **Appl.No** 17917876 **Applicant** ZINEXTS LIFE SCIENCE CORP **Inventor** WANG CHUN-CHAO

Disclosed are a sound wave homogenising module (100, 200, 300) and a biological sample preparation system (500) containing the sound wave homogenising module.The sound wave homogenising module (100, 200, 300) comprises a sleeve connector (110, 210, 310), a magnetic rod (120, 220, 320), a piezoelectric conduction component (130, 230, 330) and a driver (140, 340). The sleeve connector (110, 210, 310) has a holding part (112, 212, 312) and a pass-through part (114, 214, 314). The magnetic rod (120, 220, 320) is used for passing through the pass-through part (114, 214, 314) of the sleeve connector (110, 210, 310). The piezoelectric conduction component (130, 230, 330) is provided in the holding part (112, 212, 312) of the sleeve connector (110, 210, 310). The driver (140, 340) is electrically coupled to the piezoelectric conduction component (130, 230, 330) such that the piezoelectric conduction component (130, 230, 330) vibrates at a frequency of 100 kilohertz to 1 megahertz.

3. 20200141840 SOUND WAVE HOMOGENIZING MODULE AND BIOLOGICAL SAMPLE PREPARATION SYSTEM US - 07.05.2020

Int.Class G01N 1/28 **Appl.No** 16630842 **Applicant** ZINEXTS LIFE SCIENCE CORP. **Inventor** Chun-Chao WANG

Disclosed herein are a sonic homogenizing module [**100, 200, 300**] and a biological sample preparation system [**500**] containing the same. The sonic homogenizing module [**100, 200, 300**] comprises a rod made of a magnetic material [**120, 220, 320**]; a piezoelectric conductor [**130, 230,330**]; a driver [**140, 340**]; and a sleeve-coupling member [**110, 210, 310**] having a first portion defining a space [**112, 212, 312**] for coupling with a gripper module of a biological sample preparation system, and for accommodating the piezoelectric conductor and the driver therein; and a second portion having a conduit [**114, 214, 314**] for receiving the rod therethrough; wherein the driver [**140, 340**] is electrically coupled with the piezoelectric conductor [**130, 230,330**] and is configured to drive the piezoelectric conductor [**130, 230, 330**] to generate a sonic vibration at a frequency of 100 KHz-1 MHz.

4. 110914405 SOUND WAVE HOMOGENISING MODULE AND BIOLOGICAL SAMPLE PREPARATION SYSTEM CN - 24.03.2020

Int.Class C12M 1/42 **Appl.No** 201780093041.1 **Applicant** ZINEXTS LIFE SCIENCE CORP. **Inventor** WANG CHUN-CHAO

The present invention provides a sound wave homogenising module (100, 200, 300) and a biological sample preparation system (500) containing the sound wave homogenising module.The sound wave homogenising module (100, 200, 300) comprises a sleeve connector (110, 210, 310), a magnetic rod (120, 220, 320), a piezoelectric conduction component (130, 230, 330) and a driver (140, 340). The sleeve connector (110, 210, 310) has a holding part (112, 212, 312) and a pass-through part (114, 214, 314). The magnetic rod (120, 220, 320) is used for passing through the pass-through part (114, 214, 314) of thesleeve connector (110, 210, 310). The piezoelectric conduction component (130, 230, 330) is provided in the holding part (112, 212, 312) of the sleeve connector (110, 210, 310). The driver (140, 340)is electrically coupled to the piezoelectric conduction component (130, 230, 330) such that the piezoelectric conduction component (130, 230, 330) vibrates at a frequency of 100 kilohertz to 1 megahertz.

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