ALLNAMES:(ChipCare Corporation)

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1. **2021203651** MULTIPLEX BEAD ARRAY ASSAY AU - 24.06.2021

Int.Class G01N 13/00 **Appl.No** 2021203651 **Applicant** Chipcare Corporation **Inventor** Chen, Lu

The present disclosure relates to a system, method, and kit for particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip containing a multiplex bead array, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module counts the labeled particles and software allows for analysis of bead population.

2. **20210108248** METHODS AND DEVICES FOR CELL DETECTION US - 15.04.2021

Int.Class C12Q 1/06 **Appl.No** 16941206 **Applicant** ChipCare Corporation **Inventor** Lu CHEN

The present disclosure relates to a cartridge, detection module, system, and kit for cell and particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module may count the cells or particles of interest in real-time, or near real-time, or the module may capture images of the cells in order to analyze the sample from combined images at a later time.

3. **2020257120** A DEVICE FOR OPTICAL DETECTION OF CELLS COMPRISING A CARTRIDGE AND FLUIDIC CHIP AND METHODS THEREOF AU - 12.11.2020

Int.Class C12M 1/34 **Appl.No** 2020257120 **Applicant** Chipcare Corporation **Inventor** CHEN, Lu

The present disclosure relates to a cartridge, detection module, system, and kit for cell and particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module may count the cells or particles of interest in real-time, or near real-time, or the module may capture images of the cells in order to analyze the sample from combined images at a later time. FIGURE 1A FIGURE lB

4. **20200033251** MULTIPLEX BEAD ARRAY ASSAY US - 30.01.2020

Int.Class G01N 15/14 **Appl.No** 16590280 **Applicant** ChipCare Corporation **Inventor** James Jiahua DOU

The present disclosure relates to a system, method, and kit for particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip containing a multiplex bead array, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module counts the labeled particles and software allows for analysis of bead population.

5. **201717021947** MULTIPLEX BEAD ARRAY ASSAY IN - 29.12.2017

Int.Class G01N 13/00 **Appl.No** 201717021947 **Applicant** CHIPCARE CORPORATION **Inventor** DOU James Jiahua

The present disclosure relates to a system method and kit for particle detection and analysis. Devices disclosed herein may include at least an optical source a fludic chip containing a multiplex bead array and a detection module wherein the sample flows within the fludic chip past a detection window where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module counts the labeled particles and software allows for analysis of bead population.

6. **112017006391** DISPOSITIVO PARA DETECÇÃO ÓTICA DE CÉLULAS COMPREENDENDO UM CARTUCHO E UM CHIP FLUÍDICO E MÉTODOS DO MESMO BR - 19.12.2017

Int.Class C12M 1 **Appl.No** 112017006391 **Applicant** CHIPCARE CORPORATION **Inventor** JAMES ANDREW FRASER

a presente invenção refere-se a um cartucho, um módulo de detecção, um sistema e um kit para detecção e análise de célula e partícula. os dispositivos expostos aqui podem incluir pelo menos uma fonte ótica, um chip fluídico e um módulo de detecção, em que a amostra flui dentro do chip fluídico diante de uma janela de detecção, onde as células ou partículas têm a imagem formada por um módulo de aquisição e análise de imagem que pode incluir um detector ótico. o módulo de aquisição e análise de imagem pode contar as células ou as partículas de interesse em tempo real, ou quase em tempo real, ou o módulo pode capturar imagens das células de modo a analisar a amostra a partir de imagens combinadas em um tempo posterior.

7. **20170343466** MULTIPLEX BEAD ARRAY ASSAY US - 30.11.2017

Int.Class C12Q 1/6825 **Appl.No** 15531397 **Applicant** ChipCare Corporation **Inventor** James Jiahua Dou

The present disclosure relates to a system, method, and kit for particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip containing a multiplex bead array, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module counts the labeled particles and software allows for analysis of bead population.

8. **201717014410** A DEVICE FOR OPTICAL DETECTION OF CELLS COMPRISING A CARTRIDGE AND FLUIDIC CHIP AND METHODS THEREOF — IN - 08.09.2017

Int.Class C12M 1/34 **Appl.No** 201717014410 **Applicant** CHIPCARE CORPORATION **Inventor** CHEN Lu

The present disclosure relates to a cartridge detection module system and kit for cell and particle detection and analysis. Devices disclosed herein may include at least an optical source a fluidic chip and a detection module wherein the sample flows within the fluidic chip past a detection window where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module may count the cells or particles of interest in real time or near real time or the module may capture images of the cells in order to analyze the sample from combined images at a later time.

9. **20170218425** METHODS AND DEVICES FOR CELL DETECTION — US - 03.08.2017

Int.Class C12Q 1/06 **Appl.No** 15515517 **Applicant** ChipCare Corporation **Inventor** Lu Chen

The present disclosure relates to a cartridge, detection module, system, and kit for cell and particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module may count the cells or particles of interest in real-time, or near real-time, or the module may capture images of the cells in order to analyze the sample from combined images at a later time.

10. **11201702557X** A DEVICE FOR OPTICAL DETECTION OF CELLS COMPRISING A CARTRIDGE AND FLUIDIC CHIP AND METHODS THEREOF — SG - 27.04.2017

Int.Class C12M 1/34 **Appl.No** 11201702557X **Applicant** CHIPCARE CORPORATION **Inventor** CHEN, Lu

The present disclosure relates to a cartridge, detection module, system, and kit for cell and particle detection and analysis. Devices disclosed herein may include at least an optical source, a fluidic chip, and a detection module, wherein the sample flows within the fluidic chip past a detection window, where the cells or particles are imaged by an image acquisition and analysis module that may include an optical detector. The image acquisition and analysis module may count the cells or particles of interest in real-time, or near real-time, or the module may capture images of the cells in order to analyze the sample from combined images at a later time.