

Biotechnology and Healthcare

Title

An apparatus for identifying leaks in a face mask

Abstract

Leaks in a face mask can result in infection of aerosol transmission diseases or exposure to hazardous aerosol. In this invention, we add a leak indicator to the face mask. The leak indicator can identify the location of the leaks in real-time. Thus, the user can instantly adjust the face mask and seal the leak. The leak indicator is not only cheap but also light weighted. This invention can help protect the health of workers who are exposed to hazardous aerosol.

Benefits

1. The traditional sealing inspection point is not able to identify the location of the air leak.
2. Most of the existing product masks need to use a lot of electronic equipment to display the air leakage level of the mask. However, this will increase the cost and weight of the mask.
3. There is only one kind of transparent mask in the existing products, which can display the air leakage position of the mask without using electronic devices, but this invention cannot be applied to commercially available masks, such as N95.

Benefits:

1. This invention can instantly display the leaking part of the mask without using electronic products.
2. We are able to know the leaking part of the mask without using electronic products.
3. It can better protect the health of medical staff and workers.
4. It has the advantage of low production cost and can be solved air leak problems immediately.

Industry Categories

Respiratory protection equipment, Medical Industry

Keywords

Face mask, leak indicator, seal check, and seal test

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