Device for fighting viruses and bacteria

The field of technology

The technical solution relates to a device for fighting viruses and bacteria in the means of transport.

The current state of technology

At the time of flu epidemics there is an increased risk of contracting the disease. And especially in means of transport where large numbers of people are being gathered, there is an increased risk of possible contagion, especially infections, with infectious diseases being the cause of thousands of deaths. There is no measure in the means of transport that would be able to decrease the number of viruses and bacteria.

The nature of the technical solution

The object of the technical solution is therefore to create a simple device that would be simply arranged in the means of transport in order to reduce the number of viruses and bacteria without adversely affecting the human being. According to the invention, this is accomplished by means of a device for fighting viruses and bacteria, the nature of which consists essentially of at least one indirect germicidal lamp which is connected to the vehicle and integrated into the passenger area.

Indirect radiation germicidal lamps are designed exclusively for continuous air filtration. The fan provides forced air circulation through the emitter's reaction chamber. Germicide lamps with indirect radiation can be operated even in the presence of people. Commercially produced germicidal lamps with indirect radiation are primarily designed for small enclosed spaces. For higher air volumes, higher standards are required to ensure perfect filtration even against molds that are the most resistant ones. To meet such requirements, germicidal lamps with indirect radiation of suitable size have to be adapted.

It is preferred that the indirect radiation germicidal lamp is adjusted independently of the light fitting of the vehicle.

It is advisable if the indirect radiation germicidal lamp is built into the central lighting of the vehicle.

Further, it is advantageous if the indirect radiation germicidal lamp is built into the air conditioning of the vehicle or in the air duct of its ventilation.

Regarding the assembly, it is also advantageous if the indirect radiation germicidal lamp is connected through the source and main switch to the main circuits of the vehicle.

Clarification of drawings

The technical solution will be further explained using the drawing in FIG. 1 which shows connecting the device to the central vehicle light fitting. Fig. 2 separate device in the ceiling arrangement with separate connection, Fig. 3 block diagram of the connection of a germicidal lamp with indirect radiation.

Example (s) of making a technical solution

The device for controlling viruses and bacteria is shown in the means of transport 1, as in the example of a tram provided with at least one indirect radiation germicidal lamp 2 which is located in the space 3 in the upper part of the tram as in Figures 1 and 2. For an easy assembly, it is advantageous if the indirect radiation germicidal lamp 2 is arranged in a row with the places where the light fitting 4 is present or paralleled to the light fitting 4. It is possible to place a germicidal lamp 2 with indirect radiation to the ventilation as well. The indirect radiation germicidal lamp 2 is connected either individually or in a group arrangement independently of the light fitting of the vehicle.

An example of such connection is illustrated in FIG. 3. The indirect radiation germicidal lamp 2 is connected by the cables 5 through the source 6 and the main switch 7 located in space for the driver 9 to the main circuits 8 of the vehicle 1. The power supply 6 is an electrical device that adapts the amount of power supply of a germicidal lamp 2 to the indirect radiation from the power supply circuit 8. The main switch 7 is provided with the inscription that it is a switch 7 of the germicidal lamp 2 with indirect radiation. The use of an indirect radiation germicidal lamp 2 is suitable for the vehicle 1 when in operation. It is expedient if the indirect radiation germicide lamp 2 is used even when the vehicle 1 is shut down. The indirect radiation germicidal lamp 2 has a protective cover so there is no danger of manipulation. Its implementation is known and is therefore not described in detail.

Industrial applicability

The technical solution is applicable to all types of vehicles such as buses, trolleybuses, trams, trains, aircrafts and boats. Indirect radiation germicidal lamps have a wide range of uses in means of transport depending on the type and size of the vehicle.

An indirect germicidal lamp is the most effective means of fighting bacteria and viruses which can be used in the presence of people, children, etc. The world will face major problems with viruses and bacteria and prevention is necessary.

Claims for protection

1. The device for fighting viruses and bacteria in means of transport is characterized in that it consists of at least one indirect radiation germicidal lamp (2) which is connected to the vehicle (1) and integrated into the passenger area (3).
2. The device, according to claim 1, is characterized in that the indirect radiation germicidal lamp (2) is connected independently of the light fitting (4) of the vehicle (1).
3. The device, according to claim 1, is characterized in that the indirect radiation germicidal lamp (2) is built into the central lighting space of the means of transport (1).
4. The device, according to claim 1, is characterized in that the indirect radiation germicidal lamp (2) is built into the air duct of the ventilation of the vehicle (1).
5. The device, according to claim 1, is characterized in that the indirect radiation germicidal lamp (2) is incorporated in the air conditioning of the vehicle (1).
6. The device, according to claim 1, is characterized in that the indirect radiation germicidal lamp (2) is connected through the source (6) and the main switch (7) to the main circuits (8) of the means of transport (1).