MEDICAL WASTE SEALING BAG

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ABSTRACT

A medical waste sealing bag having an opening and at least one via holes at predetermined positions; high efficiency filtering material being attached on the via hole and in an inner side of the sealing bag. The high efficiency filtering material is selected from HEPA high efficiency particulate air filter or ULPA ultra-low penetration air filter. The sealing of the sealing bag to the high efficiency filtering material is achieved by heat pressure sealing edges or glue on. A predetermined position of the sealing bag is cut with a via hole. The high efficiency filtering material contains a layer of activate carbon filtering material.
MEDICAL WASTE SEALING BAG

BACKGROUND OF THE INVENTION

[0001] (a) Field of the Invention

[0002] The present invention relates to sealing bags, and particularly to a medical waste sealing bag, wherein the medical waste sealing bag has an opening and at least one via holes at predetermined positions; high efficiency filtering material being attached on the via hole and in an inner side of the sealing bag.

[0003] (b) Description of the Prior Art

[0004] In the prior art medical waste sealing bag, medical wastes are placed in the bags and then the bags are discarded. In general, air, particles, viruses, etc. possibly leak out so as to pollute the environment, even to induce diseases. Air in the bags will expand the volume of the bags. If it is desired to vent air in the bags, it will induce the harmful objects in the bags to leak out. Thereby, there is a demand for a novel design which can improve above mentioned defects.

SUMMARY OF THE INVENTION

[0005] Accordingly, the primary object of the present invention is to provide a medical waste sealing bag having an opening and at least one via holes at predetermined positions; high efficiency filtering material being attached on the via hole and in an inner side of the sealing bag. The high efficiency filtering material is selected from HEPA high efficiency particulate air filter or ULPA ultra-low penetration air filter. The sealing of the bag body to the high efficiency filtering material is achieved by heat bonding or glue. A via hole is cut at a predetermined position on the sealing bag. The high efficiency filtering material contains a layer of activate carbon filtering material.

[0006] The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] FIG. 1 is an assembled perspective view of the present invention.

[0008] FIG. 2 is an exploded schematic view of the present invention.

[0009] FIG. 3 is a schematic view showing the operation of the air venting in the present invention.

[0010] FIG. 4 is a schematic view showing the via holes of the bag are closed.

[0011] FIG. 5 shows one embodiment of the present invention, where the sealing bag is formed with a plurality of via holes.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0012] In order that those skilled in the art can further understand the present invention, a description will be described in the following in details. However, these descriptions and the appended drawings are only used to cause those skilled in the art to understand the objects, features, and characteristics of the present invention, but not to be used to confine the scope and spirit of the present invention defined in the appended claims.

[0013] With reference to FIGS. 1, and 2, the medical waste sealing bag of the present invention is illustrated. The medical waste sealing bag includes an opening 11 which is installed with at least one sealing fixing element 111 formed by flexible strips.

[0014] The sealing bag 1 has at least one via hole 12 at a predetermined position. High efficiency filtering material 2 is attached on the via hole and in the inner side of the bag. Air in the bag can be drained by high efficiency filtering material 2 so as to reduce the air volume of the bag. Particles and viruses are isolated by the high efficiency filtering material 2 so as to be left in the bag to prevent from diffusion to pollute the environment.

[0015] The high efficiency filtering material 2 is selected from HEPA high efficiency particulate air filter or ULPA ultra-low penetration air filter, and so on. The efficiency of high efficiency filtering material can achieve a value of 95% for filtering particles and viruses.

[0016] The sealing of the sealing bag 1 or the via hole 12 to the high efficiency filtering material 2 is achieved by heat pressure sealing edges or glue on. After the opening 11 of the sealing bag 1 is sealed with the retaining element 111, the residual air in the bag only filters through the high efficiency filtering material 2 to drain out (referring to FIG. 3) so that particles and viruses are left in the bag. Thereby, the present invention is suitable for medical, nuclear, biological, and chemical wastes.

[0017] In the present invention, the sealing bag 1 is cut to form an opening so as to form a via hole 12 so that after air stops to release out, the via hole 12 will close automatically (referring to FIG. 4).

[0018] Referring to FIG. 5, in use of the present invention, a plurality of via holes 12 are formed near the opening 11 of the bag 1. The high efficiency filtering material 2 are placed within the via holes 12. Moreover, a layer of activate carbon filtering material can be added for deleting undesired odor.

[0019] The present invention is thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.

What is claimed is:

1. A medical waste sealing bag having an opening and at least one via holes at predetermined positions; high efficiency filtering material being attached on the via hole and in an inner side of the sealing bag.

2. The medical waste sealing bag as claimed in claim 1, wherein the high efficiency filtering material is selected from HEPA high efficiency particulate air filter or ULPA ultra-low penetration air filter.

3. The medical waste sealing bag as claimed in claim 1, wherein the sealing of the sealing bag to the high efficiency filtering material is achieved by heat pressure sealing edges or glue on.
4. The medical waste sealing bag as claimed in claim 1, wherein a predetermined position of the sealing bag is cut with a via hole.

5. The medical waste sealing bag as claimed in claim 1, wherein the high efficiency filtering material contains a layer of activate carbon filtering material.

6. The medical waste sealing bag as claimed in claim 1, wherein the medical waste sealing bag includes an opening which is installed with at least one sealing fixing element formed by flexible strips or zippers.

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