A Hi Flow Air Fan Filter Cleaner Machine comprising of a retainer nut 1 that will lock the used air filter 2 to the air flow tube 3 which communicates with the high pressure air flow tube 4 attached to the hi flow fan 7 also a switch 8 to turn on and off the machine a vibrator 6 and a base 5 that supports this machine.
Fig 1

1 Retainer Nut

2 Used Air Filter

3 Air Flow Tube

4 High Pressure Air Flow Tube

5 Base

6 Vibrator

7 Hi-Flow Fan

8 Switch

Shown Exploded from Air Flow Tube
HI-FLOW AIR FAN FILTER CLEANER MACHINE
FEDERALLY SPONSORED RESEARCH

[0001] Not Applicable

SEQUENCE LISTING OR PROGRAM

[0002] Not Applicable

BACKGROUND

[0003] 1. Field of Invention

[0004] This invention relates to Hi-Flow air fan filter cleaner machine, specifically for used air filters on heavy equipment such as chippers, tractors, excavators etc.

[0005] 2. Description of Prior Art

[0006] Heavy equipment parts and supplies stores and companies commonly supply consumers with new air filters for their machines. Such filters are used by consumers to provide longer engine life in their machines.

[0007] Originally these filters were sold by the supplier with not an option to recycle them. However, consumers objected since this was the only option: the filters were disposed now will have the option to recycle and have the same use for these same already used filters depending on the condition of them.

[0008] Thereafter, inventors created several types of air filters to improve airflow in such a way as to use them for longer time.

[0009] My own provisional patent 60/385,777 (2002) describes a hi-flow air fan filter cleaner machine that provides a particular way to clean air filters and reuse them therefore capable of repeated use of the same air filters with out damage to the filter, but nevertheless all the air filters cleaners heretofore known suffer from a number of disadvantages:

OBJECTS AND ADVANTAGES

[0010] Accordingly, besides the object and advantages of the hi-flow air fan filter cleaner machine described in my above patent, several objects and advantages of the present invention are:

[0011] (a) to provide a reusable air filter for most heavy equipment machines such as tractors, excavators, chippers.

[0012] (b) to provide a reusable air filter for any of this machine to extend engine life.

[0013] (c) to provide a reusable air filter for better fuel consumption.

SUMMARY

[0014] In accordance with the present invention the hi flow air fan filter cleaner machine comprises a hi flow air fan and vibrator that helps to remove all the dust and small particle attached to the used air filter.

ADVANTAGES

[0025] From the description above, a number of advantages of my hi-flow air fan filter cleaner become evident:

[0026] (a) It is a portable machine that could be carried anywhere.

[0027] (b) It will allow to reuse a heavy equipment air filter for a couple of times.

[0028] (c) with a clean air filter fuel consumption will be less for these heavy equipment machines

[0029] (d) it will improve the duration of the engine life for these heavy equipment machines.

OPERATION

[0030] The manner of using the hi-flow air fan filter cleaner machine would be removing the retainer nut 1 place the used filter 2 on the air flow tube 3 lock the used air filter to the hi flow air fan filter cleaner machine with the retainer nut turn on the switch 8 and the hi flow fan 7 will circulate air through the high pressure air flow tube 4 and the vibrator 6 will send smooth waves movements through the base 5 that will help with the process of cleaning these used air filters.

CONCLUSION, RAMIFICATIONS, AND SCOPE

[0031] Accordingly, the reader will see that the hi flow air fan filter cleaner machine can be used to clean used air filters easily and conveniently, can be portable and easily transported conveniently this new machine will have the power to clean heavy equipment used air filters several times without damaging the used air filter. Furthermore, the hi flow air fan filter cleaner machine has the additional advantages in that

[0032] it permits to recycle and reuse these air filters

[0033] it provides a safer way to clean these air filters with out the danger to be expose to any strong chemicals

[0034] it provides a longer engine life for any of these heavy equipment machines such as tractors, excavators, chippers etc.

[0035] it permits to have a better fuel consumption.
Although the description above contains many specificities, these should not be constructed as limiting the scope of the invention but as merely providing illustrations of some of the presently preferred embodiments of this invention. For example the position of the fan or any parts of this machine could have other shapes, or sizes to fit any other air filters.

Thus the scope of the invention should be determined by the appended claims and their legal equivalents, rather by the examples given.

I claim:

1. The Hi-Flow Air Fan Filter Cleaning Machine, Comprising:

2. A hi flow fan placed on the Hi-Flow Air Fan Filter Cleaning Machine that will help the user to perform a deep cleaning for the used air filters faster and safe.

3. The vibrator located on the base of the machine that will produce smooth waves trough the base with this slyly movements and the high pressure air flow will help to eliminate all the dust and residues on the used filter.

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