



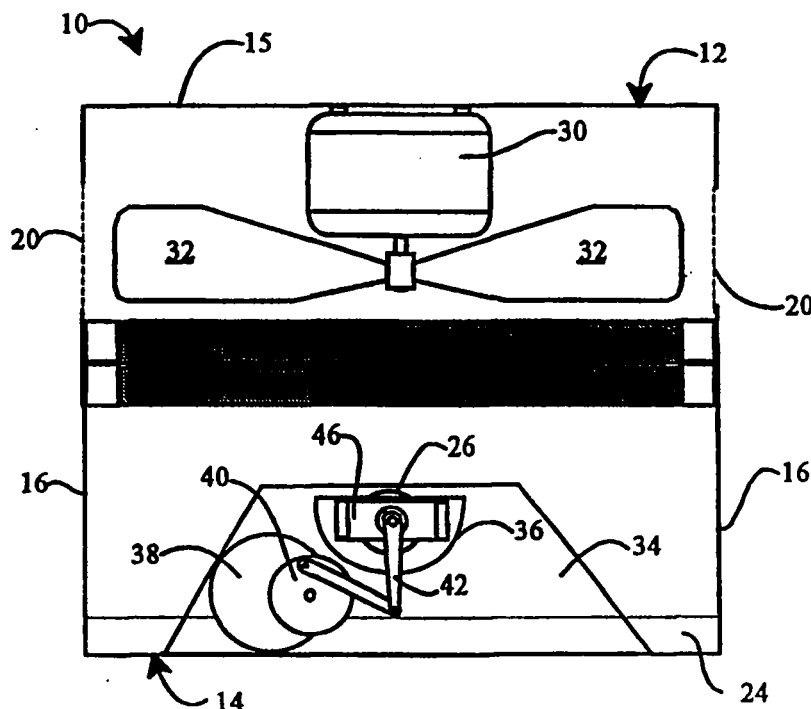
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(54) Title: PORTABLE GERMICIDAL AIR FILTER

(57) Abstract

A lightweight portable germicidal air filter (10) for home and personal use is described. The air filter (10) includes a cabinet (12) which houses an electrostatic air filter (28), an ultraviolet lamp (26) and a parabolic reflector (36), or a convex lens (54) for focusing the ultraviolet radiation emitted by the lamp on an upstream side of the air filter. The reflector or the lens are constantly oscillated to systematically sweep the upstream side of the filter with germicidal levels of radiation. A fan (30, 32) located adjacent the downstream side of the filter draws air through the filter and impels it out through areas for air exhaust (20) in the side walls (16) of the cabinet. The advantage is a simple, lightweight germicidal air filter with few moving parts which is inexpensive to manufacture.



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