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(57) Abstract :

A DEVICE TO CLEAN AMBIENT AIR WITH FILTER CLOTH AND A METHOD OF RECOVERY THEREOF The present disclosure relates to a device (20) to clean ambient air with filter cloth recovered from discarded N95 masks. The ambient air cleaning device (20) is essentially designed to filter the respirable suspended particles using N95 class filter cloth. The air consists of respirable suspended particulate matter which comes in suspension because of various natural and man-made activities and exposure to high concentrations for longer time causes many respiratory illnesses. This problem amplifies towards winter seasons. The present disclosure discloses a very simple design of the air filter device (20) and the removable filter frame (1), which is especially designed to facilitate replacement of the fitted filter cloth periodically. The present disclosure also discloses a method (30) to recover the N95 filter cloth from discarded N95 masks and use the N95 filter cloth for the purpose of the ambient air filtration after converting N95 filter cloth into continuous sheet.

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