

An Eco-Friendly Incinerator for disposing Sanitary Napkins (Part-2)

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Abstract: Disposing sanitary pads is a big issue all over the world. Hence, I have come up with an Eco-Friendly project model which can dispose the non-biodegradable sanitary pads and it’s by-products like plastic remains and organic ash can be used for further processes. I have come up with an Incinerator to dispose sanitary pads. For assembling this model, I have used two spherical shaped earthen wares of a specific volume. Both the earthen wares were placed one above the other. The upper container is the burning/disposal chamber whilst the lower one is the collection chamber. An ash tray was placed for collecting the organic ash.

Keywords: Incinerator, degrade, disposal, sanitary pads, earthenware.

1. Introduction

To come up with an Eco-Friendly technique to dispose sanitary napkins or diapers.

1) Objectives

- To come up with an eco-friendly technique to dispose sanitary napkin.
- To utilize the plastic obtained the plastic obtained from sanitary napkins in a better way.

2) Hypothesis

Sanitary napkins or diapers may be disposed in a nonpolluting and sustainable way.

2. Methodology

- Take two spherical shaped earthen wares and make it porous at the base. The volume of each earthen ware is approximately 900 cc.
- Place both these wares one upon the other. Place an aluminium wire mesh between both the wares. Apply a layer of cow dung on the inside of upper spherical pot and let it dry. Dispose 3 to 4 sanitary pads into the upper chamber and burn it partially by adding charcoal.
- Place a wire gauze at the top of the upper pot, followed by a chimney tunnel containing Sodium hydroxide layer for absorption of carbon dioxide.
- At the base of the lower container, place an ash Collecting tray.

3. Conclusion

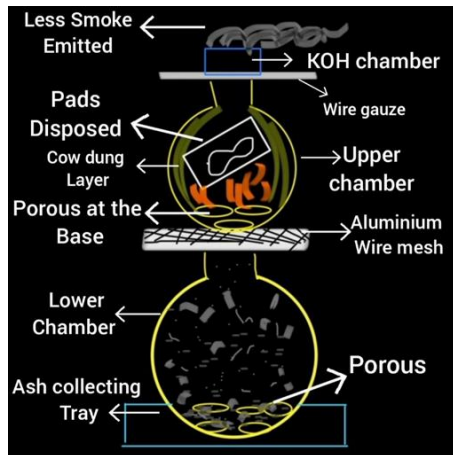
- The organic biodegradable substances present in the sanitary pads get collected in the ash collecting tray in the form ash. This ash can be used as fertilizers for plants.
- The non-biodegradable substances like plastic remains behind on the aluminum wire mesh. This plastic can be used for further processes.
- The smoke gets reduced by the use of cow dung and

Table 1
Data Collection on the amount of plastic and organic wastes that are obtained

Number of Pads (small sized with volume 193 cc)	Plastic waste obtained in grams	Organic waste obtained in grams
1	0.58	0.44
2	0.59	0.44
3	0.594	0.445
4	0.601	0.45
5	0.603	0.454
6	0.61	0.46
Number of Pads (medium sized with volume 208.8 cc)	Plastic waste obtained in grams	Organic waste obtained in grams
1	0.661	0.501
2	0.66	0.507
3	0.667	0.505
4	0.681	0.51
5	0.685	0.518
6	0.689	0.53

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sodium hydroxide chamber. The smoke emitted by the burning of cow dung, repels mosquitoes



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