An Novel Textile Artifact Bag to Evade Heat for Mobile, Tabs and Laptop by Vetiver Root Grains

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Abstract— An Organic novel textile 3 in 1 artifact bag to reduce the heat emit and its transformation, and to avoid from the Plastic bags cases to avoid the environment problem, recycle plastic bags products into handy textile organic product. This product is new handmade textiles organic bag with the raw materials such as Form, Cotton fabrics, Sponge layers and Vetiver root grains. This is a handicrafts products of a novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains to the society usage for the youths. This products is introduced to 50 person to know their opinion about the products, then the scale (questioner) was applied after having checked its psychometric properties to collect information, descriptive analytical method was used and descriptive analytical method was used, and The results of the study concluded that the feasibility of using this organic vetivert 3 in 1 pouch in handmade textile products. Thus the textile product Efficiency estimations of an organic bag are observed to be dependent on the dimensions of electrode defining the active area.

Key words: Black Plain Weave Fabric, Form, Cotton Fabrics, Sponge Layers and Vetiver Root Grains, Mobile, Tabs and Laptop

I. INTRODUCTION

A. *Objective*

- To create the awareness of 3 in 1 organic hand bag for electronic goods.
- To motivate the society to have an novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains
- To create the awareness about health issues regarding heat generated from the Mobile, Tabs and Laptop.
- To motivate the society to give the good health care electronic organic bag to the next generation
- To avoid heat generation by using herbal root called Vetiver root Grains
- To launch 3 in 1 organic hand bag product for Mobile, Tabs and Labtop for the society and study its feedback.

Fig: 1: 3 in 1 Organic electronic Pouch

B. *Introduction of the Product*

This is a product made of 30% grains of vetiver roots, 30% Canvas Material and Spongue and 40% of the Black Plain weave fabric which has made into an novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains . It is done by mixing the three layers of materials together and by laying technique by taking materials and it will be placed in a sandwich form i.e. cotton woven fabric in the upper and lower layer is the Canvas Material and Spongue and vetiver roots are in the middle layer. This is done because the cause of the heat to be reduced which is made by the vetiver root grains can be compacted as 3 in 1 Organic electronic Pouch. This product gives more comfort and reduces the heat of the electronic goods. since it cannot be classified in apparel textile; it is more of a techno thermo application of textile. Thermal textiles are widely used in electronic field and systems including cars, trains, buses, airplanes and marine vehicles and travel the Mobile, Tabs and Laptop.

- Fabric: 100% cotton Fabric Plain weave
- Fading Material: Canvas Material and Spongue
- GSM: 160
- Colour: Black
- Product: Mobile, Tabs and Laptop Pouch
- Specification: Vetiver Root Grains (Herbal root)
- Method: Laying Method and Sewing process
- Enduses: Heat Absorption
- Concept: 3 in 1 Organic electronic Pouch

II. MATERIALS & METHODS

A. *Vetiver*

A fragrant extract or essential oil obtained from the root of an Indian grass, used in perfumery and aromatherapy. The grass is Vetiveria zizanioides, family Gramineae. A member of the Gramineae family, vetiver is native of the South Asian region which includes India.

Fig. 2: Vetiver Roots

Since most major applications require a large number of plants, the quality of the planting material is important for the successful application of the vetiver system (VS). This requires nurseries capable of producing

large quantities of high quality low cost plant materials. The exclusive use of only sterile vetiver cultivars will prevent weedy vetiver from becoming established in a new environment. DNA tests prove that the sterile vetiver cultivar used around the world id genetically similar to Sunshine and Monto cultivars, both of which originate in Southern India. Given its sterility, this vetiver must be propagated vegetative stress and balance hormonal system.

B. Canvas Material and Sponge

Canvas is an extremely durable plain-woven fabric used for making sails, tents, marquees, backpacks, and other items for which sturdiness is required. It is also popularly used by artists as a painting surface, typically stretched across a wooden frame. It is also used in such fashion objects as handbags, electronic device cases, and shoes.

Modern canvas is usually made of cotton or linen, although historically it was made from hemp. It differs from other heavy cotton fabrics, such as denim, in being plain weave rather than twill weave. Canvas comes in two basic types: plain and duck. The threads in duck canvas are more tightly woven. The term duck comes from the Dutch word for cloth, doek. In the United States, canvas is classified in two ways: by weight (ounces per square yard) and by a graded number system. The numbers run in reverse of the weight so a number 10 canvas is lighter than number 4.

A sponge is a tool or cleaning aid consisting of soft, porous material. Usually used for cleaning impervious surfaces, sponges are especially good at absorbing water and water-based solutions. Sponges are commonly made from cellulose wood fibers or foamed plastic polymers. Some natural sponges are still sold, with most now used either as body or facial sponges (bath sponges) or as tools for sponge painting. Bath sponges help cleanse the skin by scraping away the dead skin and washing away dirt. Besides sponges formed from plastic polymers, the three other categories of widely available synthetic sponges are low-density polyether (known as non-absorbent sponges), PVA (a highly absorbent material for use in medicine, and polyester. Polyester sponges can be subdivided into a variety of types, some of which are reticulated (artificially broken-in) for ease of use. One type, double-blown polyester, has a high water-retention ability approaching or equaling that of PVA sponges, but with visible pores and more diverse uses.

III. METHODOLOGIES

The experimental plan consists of the following stages: How to manufacture the have a novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains product. This is a product made of 30% grains of vetiver roots, 30% Canvas Material and Spongue and 40% of the Black Plain weave fabric which has made into an novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains . It is done by mixing the three layers of materials together and by laying technique by taking materials and it will be placed in a sandwich form i.e. cotton woven fabric in the upper and lower layer is the Canvas Material and Spongue and vetiver roots are in the middle layer. This is done because the cause of the heat to be reduced which is made by the vetiver root grains can be compacted as 3 in 1 Organic electronic Pouch. This product gives more comfort and reduces the heat of the electronic goods. since it cannot be classified in apparel textile; it is more of a techno thermo application of textile. Thermal textiles are widely used in electronic field and systems including cars, trains, buses, airplanes and marine vehicles and travels the Mobile, Tabs and Laptop on both sides to make it as cushion effect.Stitched with the surface cloth (plain weave) to produce a 3 in 1 Organic electronic Pouch. The manufacturing cost of 3 in 1 pouch Organic heat Absorbing electronic bag as Rs. 285 /-.

IV. ANALYSIS OF THE PRODUCT

The survey is taken towards the Banking peoples, Personal Business, Teachers, Information Technology peoples, Professors, Students and Accounting & Financing peoples to view and study the 3 in 1 Organic electronic Pouch Bag - An novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains through the product study and survey based on questionnaires.

Fig. 3: 3 in 1 Organic electronic Pouch Bag

- A product analysis helps designers to examine products in detail.
- Designers often buy products from competitors or buy inspirational products.
- They examine and evaluate products as well as take them apart (disassembly).
- Designers might also look at products from the past.

Also time and research has been done in the following scenarios of working places.

A. ACCESS FMH

- A Aesthetics: what does the product look like?
- C Cost: how much does the product cost to buy and make?
- C Customer: who would buy or use the product?
- E Environment: where would the product be used or stored?
- S Size: how big or small is the product?
- S Safety: how safe is it during normal use?
- F Function: how does the product work? How is it cared for?
- M Material: what is the product made from?
- H Heat: Thermal absorption - Do you buy this 3 in 1 pouch Organic heat Absorbing bag?
- E Ecofriendly Product: Do you use this ecofriendly 3 in 1 Organic bag

V. RESULTS AND DISCUSSIONS

A. Analysis of the Survey 100 Peoples with 40 Set of Questions the Followers

The Peoples are banking peoples, Personal Business, Teachers, Information Technology peoples, Professors, Students and Accounting & Financing peoples.

Analysis of the Product	Aesthetics(A)	Cost	Customer	Environment	Size	Safety	Function	Material	Heat	Ecofriendly Product
Banking peoples	54%	49%	71%	80%	60%	75%	42%	53%	60%	61%
Personal Business	63%	71%	75%	79%	70%	76%	50%	64%	65%	76%
Teachers and Professors	80%	78%	82%	81%	75%	88%	83%	81%	76%	85%
Accounting & Financing peoples	75%	54%	49%	71%	80%	60%	75%	63%	71%	75%
IT Employees	82%	79%	71%	76%	85%	87%	89%	80%	85%	91%
Others	75%	78%	75%	70%	76%	50%	64%	65%	76%	70%

Table 1: Tabular for the Analysis of the Product

B. Rating System

Grading System used by countries of the world, so the similar ratings are used for the novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains. The Grade point Percentage are as follows

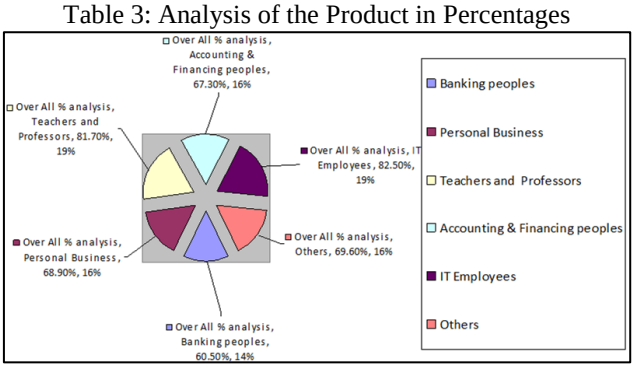
Percentage	Description
85–100%	Excellent
75–84%	Very Good
65–74%	Good
50–64%	Accepted
0–49	Failed/Unsatisfactory

Table 2: Percentage Analysis Ratings

The Overall Average Percentage ratings were rated for the novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains is required and sough off by the IT Employees. The Percentage for the IT Employees is 82.5%

S.No	Analysis of the Product	Over All %
1	Banking peoples	60.5%
2	Personal Business	68.9%
3	Teachers and Professors	81.7%
4	Accounting & Financing peoples	67.3%
5	IT Employees	82.5%
6	Others	69.9%

Table 3: Analysis of the Product in Percentages



VI. CONCLUSIONS

Just as in to the reduction of the heat by the Mobiles, Tap and Laptop organic bag was constructed of electronic capabilities on textile fibers requires the use of conducting and semi-conducting materials such as a textile. There are a number of commercial fibers today that include metallic fibers mixed with textile fibers to form conducting fibers that can be woven or sewn. However, because both metals and classical semiconductors are stiff material, they are not very suitable for textile fiber applications, since fibers are subjected to much stretch and bending during use. One of the most important issues of e-textiles is that the fibers should be washable. Electrical components would thus need to be insulated during washing to prevent damage

A new class of electronic materials that are more suitable for e-textiles is the class of organic electronics materials, because they can be conducting, as well as semiconducting, and designed as inks and plastics

Some of the most advanced functions that have been demonstrated in the lab include:

- Organic fiber transistors the first textile fiber transistor that is completely compatible with textile manufacturing and that contains no metals at all.
- Organic solar cells on fibers are classified in apparel textile;
- It is more of a techno thermo application of textile. Thermal textiles are widely used in electronic field and systems including cars, trains, buses, airplanes and marine vehicles and travel the Mobile, Tabs and Laptop on both sides to make it as cushion effect.
- Stitched with the surface cloth (plain weave) to produce a 3 in 1 Organic electronic Pouch. The manufacturing cost of 3 in 1 pouch Organic heat Absorbing electronic bag as Rs. 285 /- was accepted by the peoples of the survey.

The Overall Average Percentage ratings were rated for the novel textile artifact to evade heat for Mobile, Tabs and Laptop by Vetiver root Grains is required and sough off

by the IT Employees. The Percentage for the IT Employees is 82.5%.

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