Title: INSULATION OF ELECTROMAGNETIC WAVEs

Abstract: Aluminum is a kind of material which is used to filter electromagnetic waves and gradually radioactive waves as Alpha, Beta and Gamma. The cost of using aluminum as insulating material in buildings is very suitable. This material which can be used in inner and outer facades is very resistant to oxidation. It ensures exact performance since it is not porous as electromagnetic waves filter fabric. In addition it is easily found. It is aimed by this project to avoid harmful effects of electromagnetic pollution sourced from base stations and high voltage lines and also to prevent spy listening. In this context "Secret Box" made of aluminum and "Deaf Room" aluminum insulated living places are aimed to prevent electromagnetic waves and spy listening.
INSULATION OF ELECTROMAGNETIC WAVES

The goal of this research is the usage of aluminum metal in the houses, living and similar areas to block electromagnetic waves and to protect these areas from their harmful effects. As it is known aluminum metal gradually filters and also blocks harmful radioactive waves as Alpha, Beta and Gamma. In Taiwan silver ionized fabrics is being used to block electromagnetic waves. Aluminum metal is an alternative to this material and it is much cheaper and also more useful. The properties of aluminum which makes itself attractive, economic and having wide usage areas are lightness, penetrability, resistance to corrosion and also other physical and mechanical properties. Since aluminum is not toxic, it has also wide usage area at food sector. Aluminum metal shows very good corrosion resistance in many areas such as atmosphere, water (including salty water), petrochemical and other chemical systems. Surface of aluminum is highly reflective. From its surface radiant energy, visible light, radiant heat and electromagnetic waves are reflected very effectively. In order to minimize negative affects of electromagnetic waves on human health and to insulate electromagnetic waves it is aimed to produce cellular phone case, wallpaper, window filter, plate under plaster, roof insulation to be used in buildings bedrooms, hospitals, day nurseries, and similar places which are close to base stations. In addition the purpose it to protect especially people suffered from hearth illnesses or people who are using pacemaker and small kids from electromagnetic waves of base stations. Moreover the purpose is to block electromagnetic waves to avoid listening of business men, diplomats, and politicians' offices via cellular phones and wireless technical spy listening devices by application of "Deaf Rooms". Metal box named as "Secret Box" production is also aimed to block listening via cellular phones. Silver ionized fabric cases produced in out of country are alternative of "Secret Boxes" but have short life, easily be wearing out and show limited performance. "Different materials are used to shielding of electromagnetic waves and their shielding performances change by their material properties.

- Material properties and type are important for the material used for electromagnetic obstacle
- Indefinites zones where parts and circuits are combined are important
- Gaps and holes are important
- Resistance to corrosion and galvanic compatibility is important
- Outer surface lining price is important
- Pores, holes, stitches and combining parts of fabrics are weak points and all disadvantages for electromagnetic insulation.

- Thickness of textile, fabric moistness, textile looseness is all factors affecting performances" (Tekstil Teknolojileri Dergisi, 2009).

Cellular phone "Secret Box" will be made of aluminum metal, and lower and upper part of box will be fitted into each other in this manner empty fields will be avoided. By this way exact insulation will be ensured to block electromagnetic waves and listening will be avoided. Aluminum material used in buildings as "Deaf Room" will be applied to walls, floors, ceilings and to windows as aluminum frame and aluminum filtered glass by covering all spaces to block electromagnetic waves. By this application, the rooms named as "Deaf Room" will be prevented and people living in this room will be protected from the harmful effects of electromagnetic waves also listening of these rooms via cellular phones, bugs and similar wireless spy listening devices will be avoided. It is aimed by this project to universalize the application of "Deaf Rooms" for the areas as day nurseries, hospitals, meeting rooms, political party buildings, etc.

In addition to the usage of aluminum material as insulation of electromagnetic waves, it is not needed to use jammer in buildings in order to block cellular phone waves. Furthermore terrorist bombing attacks to buildings will be prevented by cutting communication via cellular phones.
CLAIMS

1. It contains production of "Secret Box" which is electromagnetic waves insulated cellular phone case and is made of aluminum metal, its lower and upper part will be fitted into each other and in this manner empty fields will be avoided.

2. It contains production of "Deaf Room" applied in houses, offices and living areas; aluminum plate applied in these areas will be mounted as meshed avoiding lacunas (empty spaces).

3. It contains production of "Deaf Room" according to claim 2 and ceilings and walls of the rooms will be covered by aluminum wallpaper and all junctions will be overlapped.

4. It contains production of "Deaf Room" according to claim 2 and insulation material aluminum will be applied under parquets and ceramics.

5. It contains production of "Deaf Room" according to claim 2 and window frames and doors will be made of aluminum.

6. It contains production of "Deaf Room" according to claim 2 and all windows will be made of aluminum filtered.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC:

H 05 K 9/00

ADD.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols):

H 05 K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched:

Electronic data base consulted during the international search (name of data base and, where practical, search terms used):

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "X" document defining the general state of the art which is not considered to be of particular relevance
- "P" earlier document published on or after the international filing date which may throw doubts on priority claim(s) or which is cited to establish the publication date of another invention of the same genre or which is patented prior to the relevant date of the cited document and that, in the case of a document having more than one publication date, was so cited to be applied to a particular aspect of the invention claimed, or otherwise published on or after the relevant date (as specified) for the claimed invention
- "O" document referring to an oral disclosure, use, exhibition or other means
- "F" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search:

16 June 2011

Date of mailing of the international search report:

24/06/2011

Name and mailing address of the ISA:

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Authorized officer:

Galary, Grzegorz

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