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(54) TRIDIMENSIONAL SHOW CABINET WITH EXPLOSION-PROOF FILM

(57) The present invention discloses a stereo displaying cabinet with an explosion-proof film comprising: an outer frame with a transparent layer; an automotive explosion-proof film layer which is attached to the transparent layer of the outer frame; a stereo rack, wherein several displaying units are formed by several shelves; a base plate with a light source assembly at the rear of the shelves, wherein several light source units are secured on the base plate; a baffle which is disposed between the base plate with the light source assembly and the stereo rack; wherein the outer frame is connected to the base plate with a removable fit; the photic layer of the explosion-proof film is located at the side of the light source units. The stereo displaying cabinet according to the present invention can both attain the two objects of planar display and stereo display, having an excellent advertisement displaying effect.

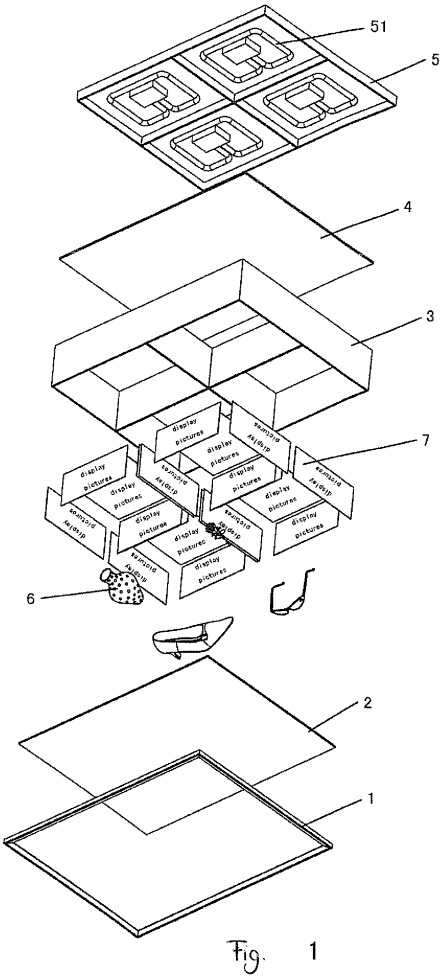

Fig. 1

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Description

TECHNICAL FIELD

[0001] The invention relates to an advertisement displaying technology, and in particular, relates to a stereo displaying cabinet with an explosion-proof film.

BACKGROUND ART

[0002] Currently, advertisement media such as advertisement boards, advertisement light boxes are generally arranged in a public place such as shopping mall, supermarket, recreation place, gymnasium, coffee house, tea house, golf course, airport, and the like, however, these advertisement media each has a single form, and cannot meet the complex requirements of a large place.

[0003] Generally, these places have a very high requirement to a decorative advertisement. It is relative difficult for a simple planar advertisement or a simple product display to meet the requirements of the product promulgator or the customer. Moreover, this kind of medium is easy to crush, has a low safety factor, and even can cause a harmful accident.

DISCLOSURE OF THE INVENTION

[0004] Based on the above-mentioned complex requirements, the present invention combines the advantages of a planar display and a stereo display, and proposes a stereo displaying cabinet with an explosion-proof film.

[0005] Particularly, a stereo displaying cabinet with an explosion-proof film according to the present invention comprises: an outer frame with a transparent layer; an automotive explosion-proof film layer which is attached to the transparent layer of the outer frame; a stereo rack, wherein several displaying units are formed by several shelves; a base plate with a light source assembly at the rear of the shelves, wherein several light source units are secured on the base plate; a baffle which is disposed between the base plate with the light source assembly and the stereo rack; wherein the outer frame is connected to the base plate with a removable fit; the photic layer of the explosion-proof film is located at the side of the light source units.

[0006] Preferably, the light source units correspond to the displaying units.

[0007] Preferably, the light source units are annular light tubes.

[0008] Preferably, the transparent layer comprises a glass material or an organic material.

[0009] Preferably, the stereo rack has a "#" shape, and several display pictures are pasted on the left side, right side, rear side, and bottom side of the stereo rack.

[0010] Preferably, each light source unit comprises a control circuit.

[0011] Preferably, the outer frame is an edge-coated structure, and the automotive explosion-proof film layer is attached to the inner side of the transparent layer.

[0012] The present invention applies an explosion-proof film on the transparent layer of the stereo displaying cabinet, highly increases the safety, and has functions of both stereo product displaying and planar advertisement.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] Hereinafter, the above and other objects, features and advantages of the present invention will be obvious to a person skilled in the art from the detailed description of the invention and with reference to the drawings.

FIG. 1 is an exploded diagrammatic view of the present invention.

FIG. 2 is an assembled diagrammatic view of the present invention.

FIG. 3 is an in-use state view of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0014] As shown in FIG. 1, a stereo displaying cabinet with an explosion-proof film according to the present invention, from an outer side to an inner side in the structure, comprises: an edge-coated outer frame 1 with a glass or transparent organic plate, similar to an outer plate of a common glass displaying cabinet, which can be mounted removably together with a base plate; an automotive explosion-proof film layer 2, which can be attached to an inner or outer side of the outer frame 1; a stereo rack 3, wherein displaying units having a "#" grid shape are formed by several laminar shelves, wherein several grids, such as 2, 4, 6, 8 grids, or several layers of displaying spaces can be arranged according to the requirements of advertisement displaying, so that a display product 6 is laid, and wherein display pictures 7 are pasted on four display sides such as left side, right side, rear side, and bottom side. Light source units composed of annular light tubes 51 are disposed at the rear of the stereo rack 3. A light source assembly 5 is composed of several light source units. A baffle 4 is disposed between the base plate 5 with the light source assembly and the stereo rack 3. The baffle is generally organic, so that the light source assembly on the base plate 5 can irradiate a light uniformly towards the stereo rack 3 through the baffle 4.

[0015] As shown, the light source assembly on the base plate 5 is composed of several light source units, each of which has a position corresponding to the position of the displaying unit. In other words, several grooves mating with the areas on the stereo rack 3 are designed on the base plate 5 to lay the light source units. Each light source unit comprises a control circuit (not shown). Generally, an annular light tube 51 is disposed within each groove.

[0016] The components are assembled into a whole according to the above-mentioned sequence, as shown in Fig. 2. When the control circuit of the light source assembly 5 is turned on, the display products 6 and the display pictures 6 at the inner side can be seen through the film-applied transparent layer because a light irradiates on the incident side of the automotive explosion-proof film layer 2 on the outer frame 1. When the light source assembly 5 is turned off, the film-applied transparent layer can only be used as a common mirror.

[0017] The present invention can independently control the light source units within the various grooves, so as to display the products and pictures at various positions of the displaying cabinet, as shown in Fig. 3.

[0018] Using the stereo displaying cabinet with an explosion-proof film having the above-mentioned structure, the two objects of planar display and stereo display can both be attained, having an excellent advertisement displaying effect. The stereo displaying cabinet with an explosion-proof film having this structure can also be applied to items such as beverage selling machine, coffee machine, paper-towel selling machine, alcohol refrigerator, and the like.

[0019] The above embodiments are only illustrative for the present invention, not restrictive for the present invention. Various modifications or changes can be made by a person skilled in the art without departing from the spirit and scope of the invention. Therefore, all the equivalent technical solutions should also be within the scope of the invention and should be defined by the claims.

Claims

1. A stereo displaying cabinet with an explosion-proof film comprising:

an outer frame with a transparent layer;
an automotive explosion-proof film layer which is attached to the transparent layer of the outer frame;
a stereo rack, wherein several displaying units are formed by several shelves;
a base plate with a light source assembly at the rear of the shelves, wherein several light source units are secured on the base plate;
a baffle which is disposed between the base plate with the light source assembly and the stereo rack;
wherein the outer frame is connected to the base plate with a removable fit; the photic layer of the explosion-proof film is located at the side of the light source units.

2. The stereo displaying cabinet with an explosion-proof film according to claim 1, wherein,
the light source units correspond to the displaying units.

3. The stereo displaying cabinet with an explosion-proof film according to claim 2, wherein,
the light source units are annular light tubes.

4. The stereo displaying cabinet with an explosion-proof film according to claim 3, wherein,
the transparent layer comprises a glass material or an organic material.

5. The stereo displaying cabinet with an explosion-proof film according to claim 4, wherein,
the stereo rack has a "#" shape, and several display pictures are pasted on the left side, right side, rear side, and bottom side of the stereo rack.

6. The stereo displaying cabinet with an explosion-proof film according to claim 5, wherein,
each light source unit comprises a control circuit.

7. The stereo displaying cabinet with an explosion-proof film according to claim 6, wherein,
the outer frame is an edge-coated structure, and the automotive explosion-proof film layer is attached to the inner side of the transparent layer.

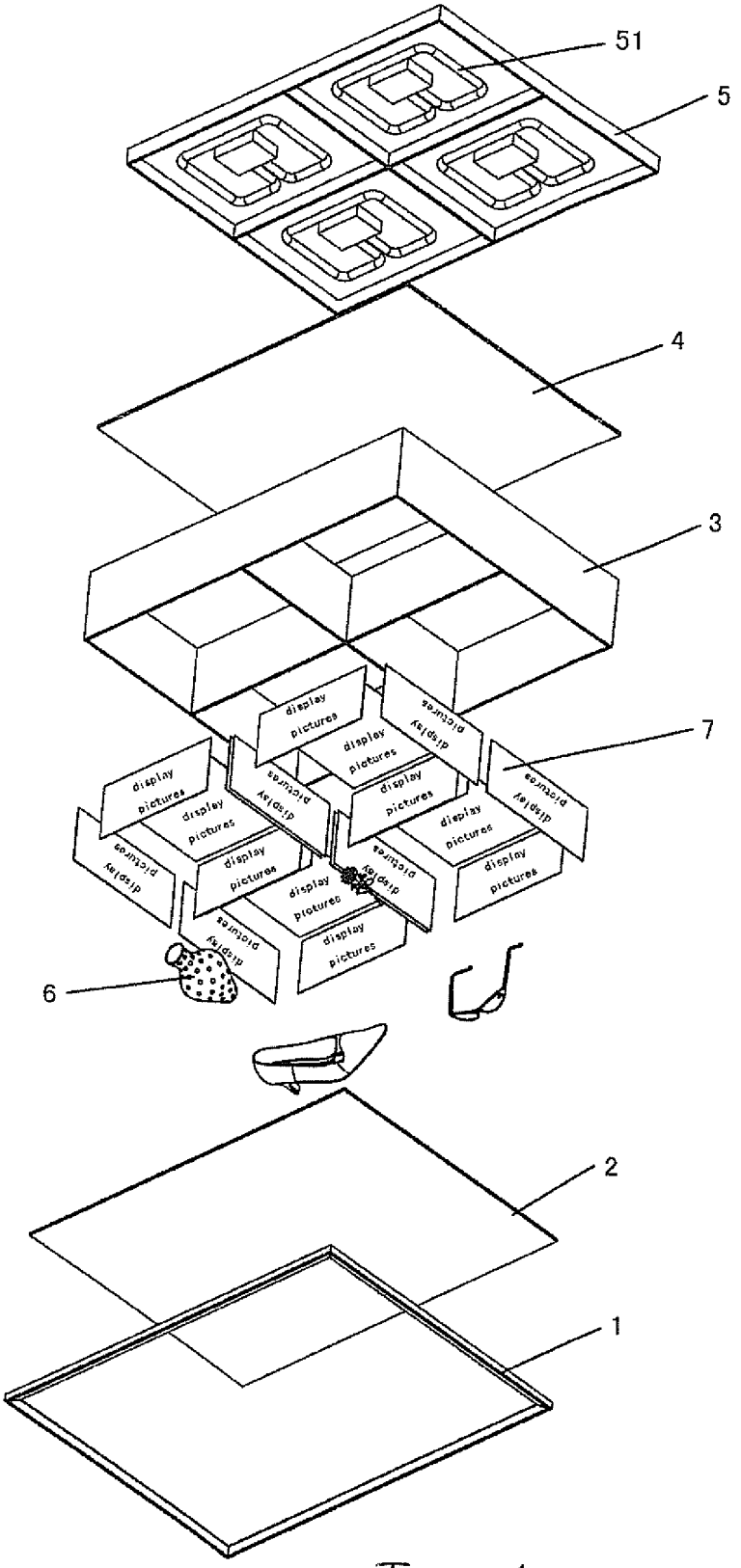

Fig. 1

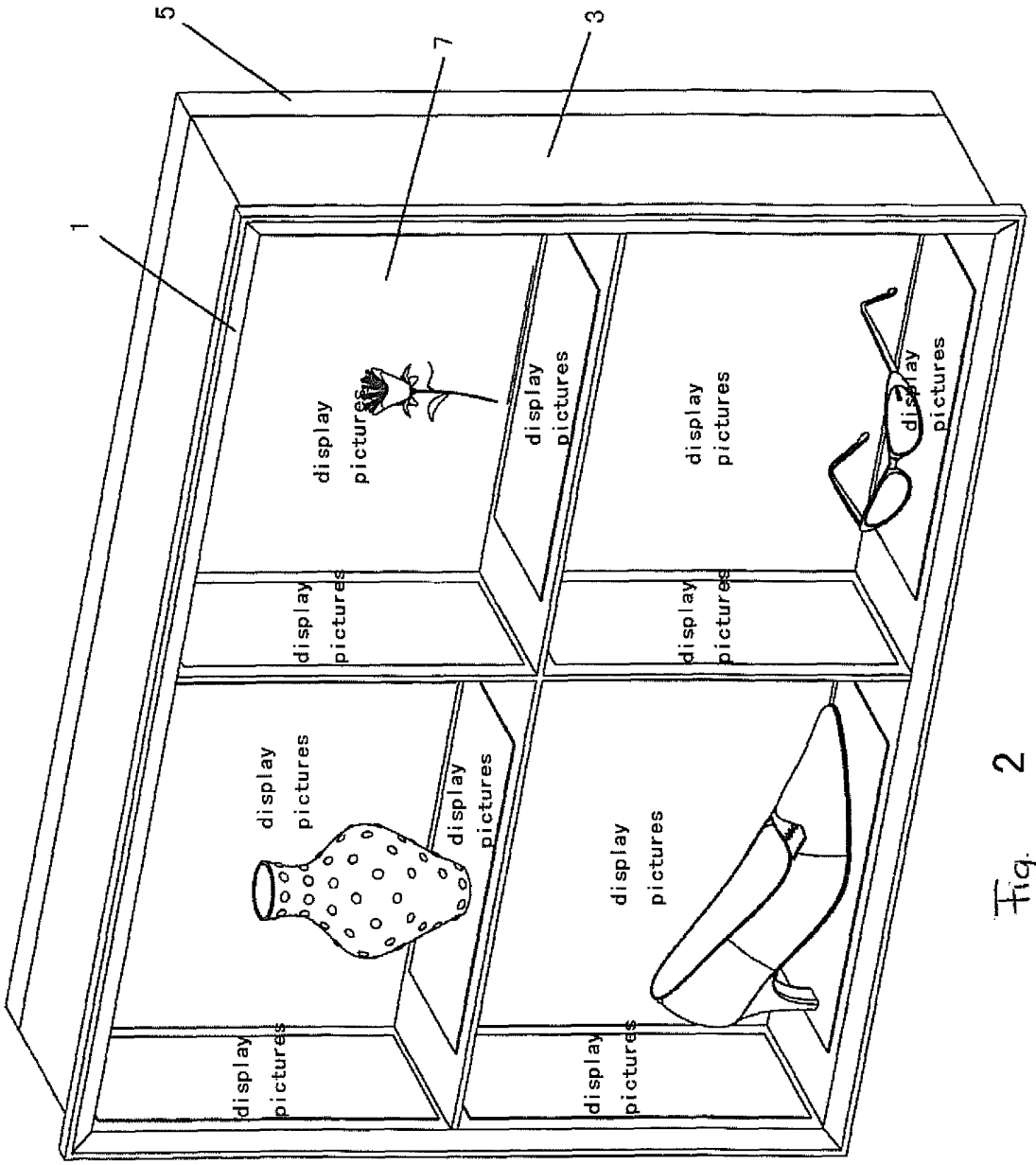
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Fig. 2

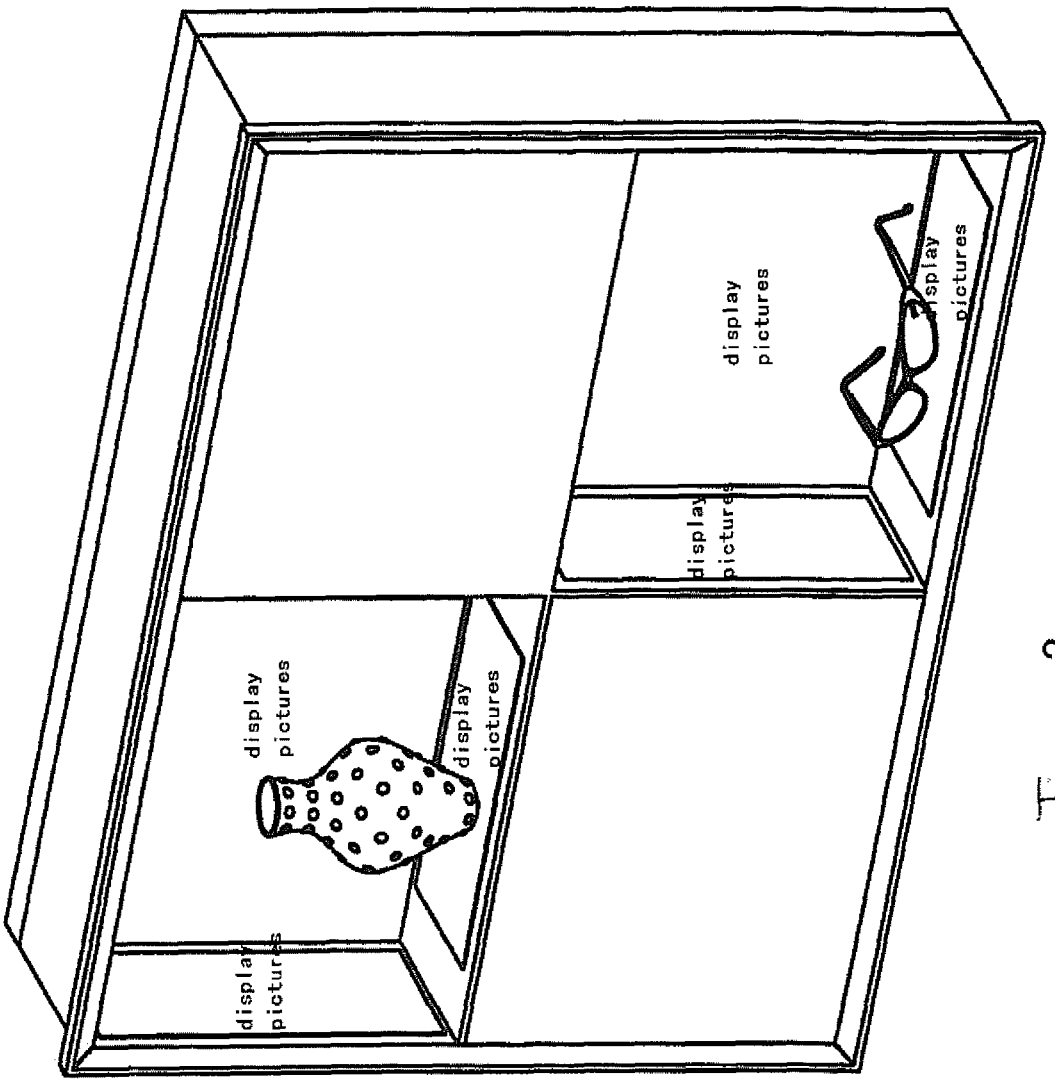
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Fig. 3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2010/070878

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC:A47F

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 practicable, search terms used)

WPI,EPODOC,CNPAT,CNKI:SHOW+,CABINET,CASE,STAND,EXPLOSION PROOF,RUPTURE,MEMBRANE,DIAPHRAGM,FILM,LIGHT,LAMP,SHELF,BOARD

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to
A	CN2922648Y(WENBO SHIKONG SCIENCE TECHNOLOGY CO LTD)18Jul.2007(18.07.2007) the whole document	1-7
A	CN101422307A(SANYO ELECTRIC CO LTD)06 May2009(06.05.2009) the whole document	1-7
A	CN2503791Y(YU Yifei)07 Aug.2002(07.08.2002) the whole document	1-7
A	CN201135296Y(HUNAN MENGJIE TEXTILE CO LTD)22 Oct.2008(22.10.2008) the whole document	1-7
A	JP1146939A(YOKOHAMA RUBBER CO LTD et al.)23 Feb.1999(23.02.1999) the whole document	1-7
A	JP926260(NAKANO REIKI KK)28 Jan.1997(28.01.1997) the whole document	1-7

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

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
25 May2010(25.05.2010)	**10 Jun. 2010 (10.06.2010)**
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer HE Yi Telephone No. (86-10)62085814

Form PCT/ISA /210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2010/070878

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN2922648Y	18.07.2007	None	
CN101422307A	06.05.2009	EP2055211A1	06.05.2009
		US2009116228A1	07.05.2009
		KR20090045031A	07.05.2009
		CA2641476A1	01.05.2009
		JP2009112351A	28.05.2009
CN2503791Y	07.08.2002	None	
CN201135296Y	22.10.2008	None	
JP1146939A	23.02.1999	None	
JP926260A	28.01.1997	None	

Form PCT/ISA /210 (patent family annex) (July 2009)

INTERNATIONAL SEARCH REPORT

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Continuation of :second sheet

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A47F7/00 (2006.01)i
A47F5/08 (2006.01)i

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