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- (72) **Inventor; and**
- (71) **Applicant : HOVHANNISYAN, Arman** [AM/AM]; 12  
G. Lusavorich str. apt. 2a, Yerevan, 0015 (AM).
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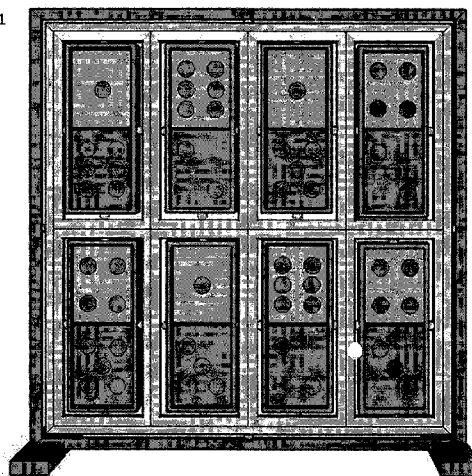
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(54) **Title:** AN INTELLECTUAL GAME

fig. 1



(57) **Abstract:** The game is executed in the form of a frame set on a stand (1). The frame (5) is hung on the stand and has the possibility of being rotated on the stand about a longitudinal axis. In the box leaves (12) are set in two rows; the number of leaves (12) in the lower row is larger by one leaf. The stand is executed in the form of a rectangular frame, blind holes ( 3 ) are made on the inner side surfaces of the stand in the center, and projections are made on the side surfaces of the frame in the center. The frame (5) has eight rectangular slots; blind holes (7) are made on the inner side surfaces of the slots in the center. The frame (5) is executed with the possibility of setting the slots into the blind holes of the stand. Into the rectangular slots of the frame are set boxes (8) executed in the form of a frame with transparent plates attached to the side surfaces. Projections (9) are made on the outer side surfaces in the center with the possibility of said projections being set into the blind holes made in the centers of the rectangular slots.



## **An intellectual game**

### Area of technology

The invention is related to intellectual, particularly to entertainment and educational, games.

### Prior art

A "Cognitive Book" is known, with the aid of which a child reads books while playing (patent AM 247U, A63H33/00, 21 Mar 2011). The book is executed in the form of a frame, to the open sides of which are attached available slots of a plate, wherein one slot is made on the front side of the frame in the lower part, while the other is on the opposite side of the frame in the upper part. The frame is hung on a stand and has the possibility of being rotated on the stand about the longitudinal axis. On the frame are arranged the leaves of a book with two rows, an upper and a lower one. With each 180° turn of the frame, one leaf is shifted from the lower part to the upper part, and the lower and upper rows of leaves change places, wherein the next slot of the frame occupies the front position, indicating the next page of the book. The opposite side of the front page of the book's leaves is printed upside down here.

It contributes to heightening a child's interest in reading and develops memory and attention.

A disadvantage of the device is that it has a single operating box.

### Essence of the invention

The task of the invention is to make a device that is more diverse and absorbing.

The essence of the invention lies in the fact that the device is executed in the form of a frame set on a stand, in which the frame is hung on the stand with the possibility of rotation about the longitudinal axis. Leaves (cards) are set in a box in two rows; the number of cards in the lower row is greater by one leaf. According to the invention, the stand of the device is executed in the form of a rectangular frame. Blind holes are made in the inner side surfaces of the stand in the center, and projections are made on the side surfaces of the frame in the center. The frame has eight rectangular

slots; blind holes are made on the inner side surfaces of the slots in the center. The frame is executed with the possibility of setting the slots into the blind holes of the stand. Into the rectangular slots of the frame are set boxes executed in the form of the frame with transparent plates fastened to the side surfaces. Projections are made on the outer side surfaces of the box in the center with the possibility of setting said projections in the blind holes made in the center of the rectangular slots.

#### Pictorial materials

The essence of the invention is explained in the pictorial drawings, where

Fig. 1 depicts a general view of the device,

Fig. 2 is the stand of the device; blind holes are made on the inner side surfaces of the stand in the center,

Fig. 3 is the frame of the device,

Fig. 4 is the frame of the device set on the stand,

Fig. 5 depicts rotation of the frame on the stand about a horizontal axis of symmetry,

Fig. 6 depicts rotation of the frame on the stand about a vertical axis of symmetry,

Fig. 7 is of boxes set in the slots of the frame,

Fig. 8 is a box of the device,

Fig. 9 is the frame of a box,

Fig. 10 depicts the open sides of the box frame, with transparent plates attached,

Fig. 11 is a box with cards arranged in two rows, upper and lower,

Fig. 12 depicts a 180° rotation of the box about a transverse axis of symmetry,

Fig. 13 depicts the cards changing places during the rotation of the box,

Fig. 14 depicts one card being shifted from the lower part to the upper part with a rotation of the box,

Fig. 15 depicts the upper and lower rows of cards changing places with a rotation of the box,

Fig. 16 depicts the next card in the lower row occupying the front position in the opposite row of cards with a rotation of the box,

Fig. 17 depicts rotation of the box in the frame slot about transverse and longitudinal axes of symmetry,

Fig. 18 depicts boxes in a stationary position occupying a vertical position in the frame, and the frame occupies a vertical position on the stand,

Fig. 19 depicts the player finding common conditions in three directions (horizontal, vertical, or oblique).

### Implementation of the invention

The device has a stand (1) (Fig. 2); inside the stand (1) is set a frame (5) (Fig. 3 and Fig. 4). The stand (1) has little legs (2) (Fig. 2), blind holes (3) are made on the inner side surfaces of the stand (1) in the center (Fig. 2). Projections (4) are made on the outer side surfaces of the frame (5) in the center (Fig. 3). The frame (5) has eight rectangular slots (6) (Fig. 3); blind holes (7) are made on the inner side surfaces of the slots (6) in the center (Fig. 3). The frame (5) is set inside the stand (1), with the aid of its projections (4), which are set in the blind holes (3) of the stand (1) (Fig. 4). The frame (5) has, with the aid of the projections (4), the possibility of being rotated within the stand (1) about horizontal and vertical axes of symmetry (Fig. 5 and Fig. 6). In order to turn the frame (5) 180°, we hold the stand (1) with one hand, and we push on the frame (5) with the other hand from the front side in the area of the projection (4). Upon pushing, the horizontal or vertical pair of projections (4) come out of the horizontal or vertical blind holes (3) of the stand (1) (Fig. 5 and Fig. 6); then we continue to turn the frame (5) while the projections (4) approach the opposite side of the stand (1). Then again holding the stand (1) with one hand, we push on the frame (5) with the other hand in the area of the projection (4) in order for the projection (4) to go into the blind hole (3) of the stand (1) (Figs. 4-6). In the slots (6) of the frame (5) are set boxes (8), which are set into the blind holes (7) of the frame (5) with the aid of the projections (9) (Fig. 7). The box (8) (Fig. 8) has a frame (10); to the open sides of the box frame (10) are attached transparent plates (11) (Fig. 9 and Fig. 10). In the box (8), cards (12) are arranged in two rows, an upper and a lower one, in which the number of cards (12) in the lower row is greater by one leaf (Fig. 11). With each 180° rotation of the box (8) about a transverse axis of symmetry, one card (12) from the lower part is shifted to the upper part, while the lower and upper rows of cards (12) change places (Figs. 11-16). The box(es) (8) has(have) the possibility of being rotated in a slot of the frame (5) about

transverse and longitudinal axes of symmetry (Fig. 17). In order to turn the box (8) 180°, we hold the frame (5) with one hand (5), and we push on the box (8) from the front side with the other hand in the area of a projection (9). Upon being pushed, the horizontal or vertical pair of projections (9) come out of the horizontal or vertical blind holes (7) of the slot (6) (Fig. 17). We then continue turning the boxes (8) until the projections (7) reach the opposite side of the slot (6). Then holding the frame (5) again with one hand, we push on the box (8) with the other hand in the area of a projection (7) in order for the projection (7) to go into the blind hole (7) of the slot (6) (Fig. 17 and Fig. 18).

In a stationary position, the boxes (8) occupy a vertical position in the frame (5), and the frame (5) occupies a vertical position on the stand (1) (Fig. 18).

In order to operate the device, the box (8) or frame (5) is turned 180° about transverse or longitudinal axes of symmetry (Figs. 5, 6, and 17). Here, with a rotation of the box (8) about a longitudinal axis of symmetry, the front and back side of the cards (12) change places, and upon turning the box (8) about a transverse axis of symmetry, one card (12) from the lower part is shifted to the upper part and the lower and upper rows of cards (12) change places (Figs. 11 and Fig. 17). Upon rotation of the frame (5) about a vertical axis of symmetry, the front and back side of the cards (12) of all the boxes (8) change places at the same time, and upon rotation of the frame (5) about a horizontal axis of symmetry, one card (12) in all the boxes is shifted from the lower part to the upper part and the lower and upper rows of cards (12) change places (Figs. 5, 6, 11-16).

The pages and the inner surface of the device box have a smooth lacquered or laminated surface.

The player (players) must find common conditions in the three directions of the device (horizontal, vertical, or oblique) (Fig. 19) if illustrations are depicted on the pages (animals, plants, etc.); he must collect the most points if numbers are depicted on the pages, must assemble words from letters if letters are depicted on the pages, and so on.

## Claim

An intellectual game, which is executed in the form of a frame set on a stand, in which the frame is hung on the stand with the possibility of rotation about a longitudinal axis, leaves are set in two rows in a box, in the lower row the number of leaves is greater by one leaf, ***characterized in*** that the stand is executed in the form of a rectangular frame, blind holes are made on the inner side surfaces of the stand in the center, projections are made on the side surfaces of the frame in the center, the frame has eight rectangular slots, blind holes are made on the inner side surfaces of the slots in the center, the frame is executed with the possibility of setting the slots into the blind holes of the stand, into the rectangular slots of the frame are set boxes executed in the form of a frame with transparent plates attached to the side surfaces, and projections are made on the outer side surfaces of the box in the center with the possibility of setting them into the blind holes made in the center of the rectangular slots.

1/9

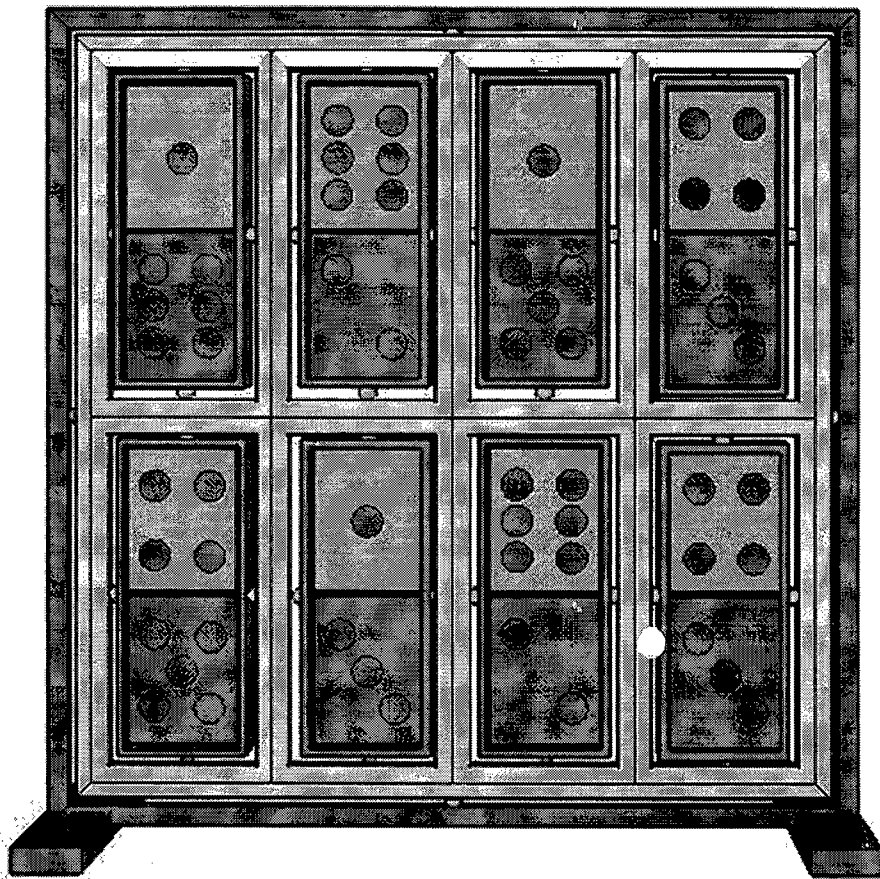


fig. 1

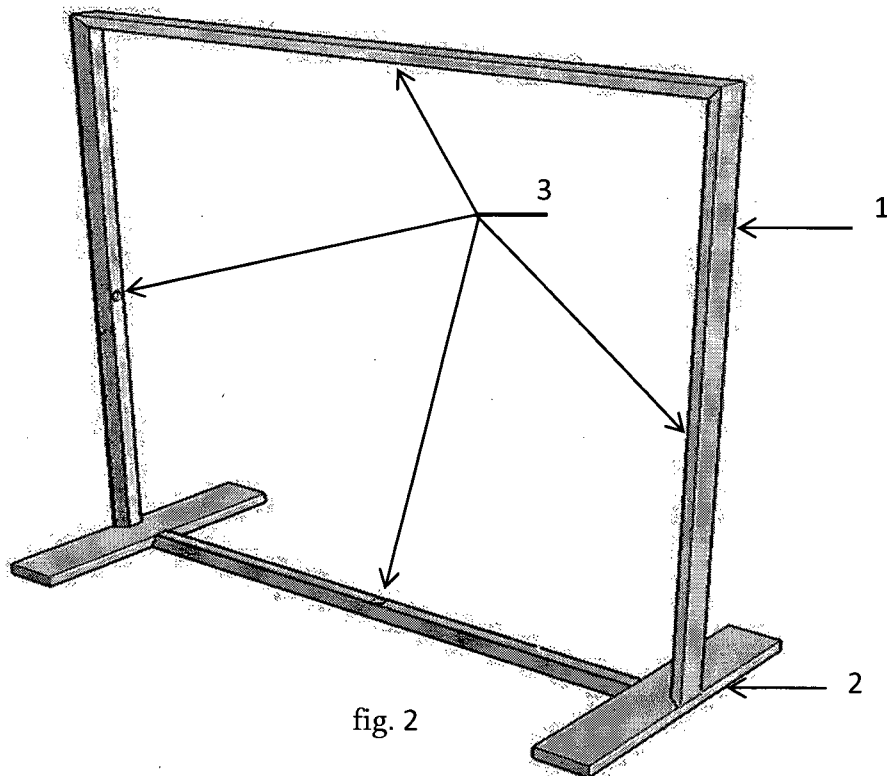


fig. 2

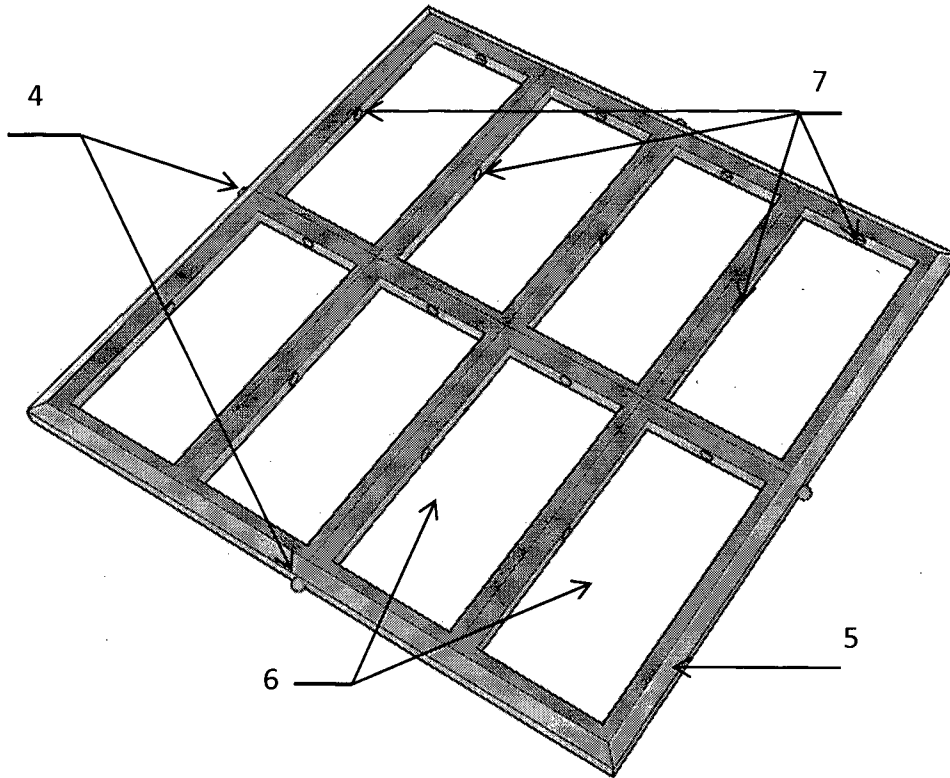


fig. 3

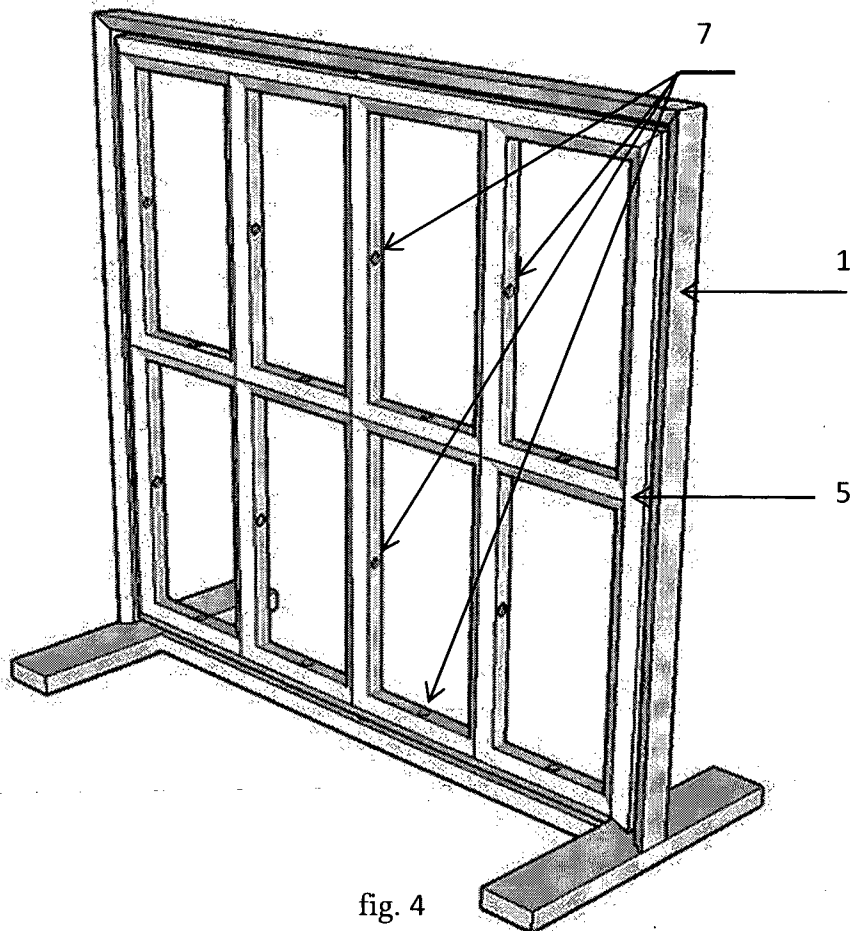


fig. 4



3/9

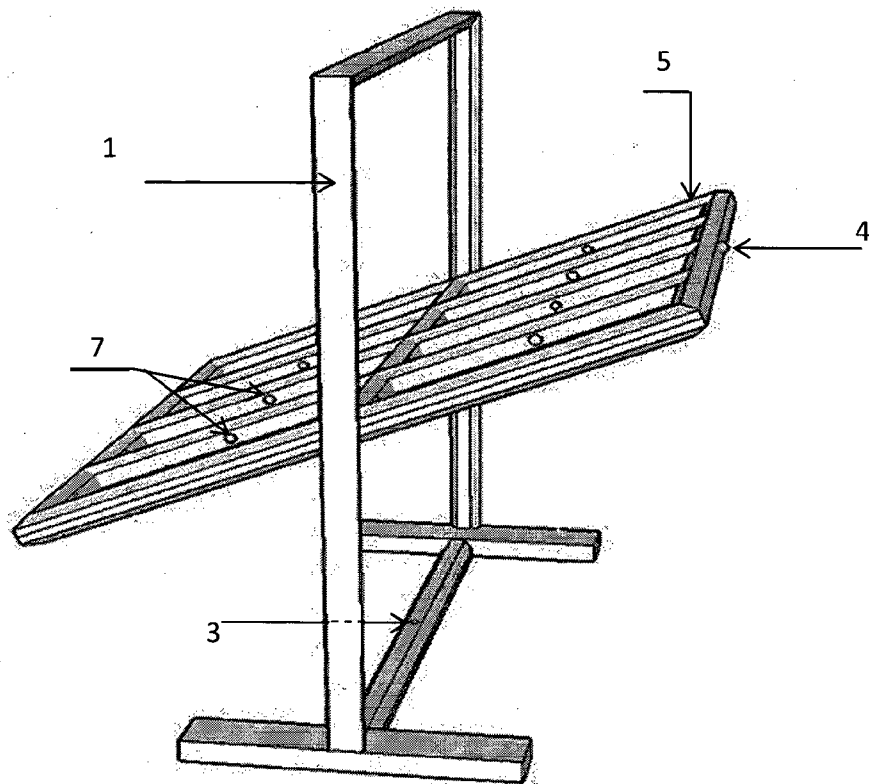


fig. 5

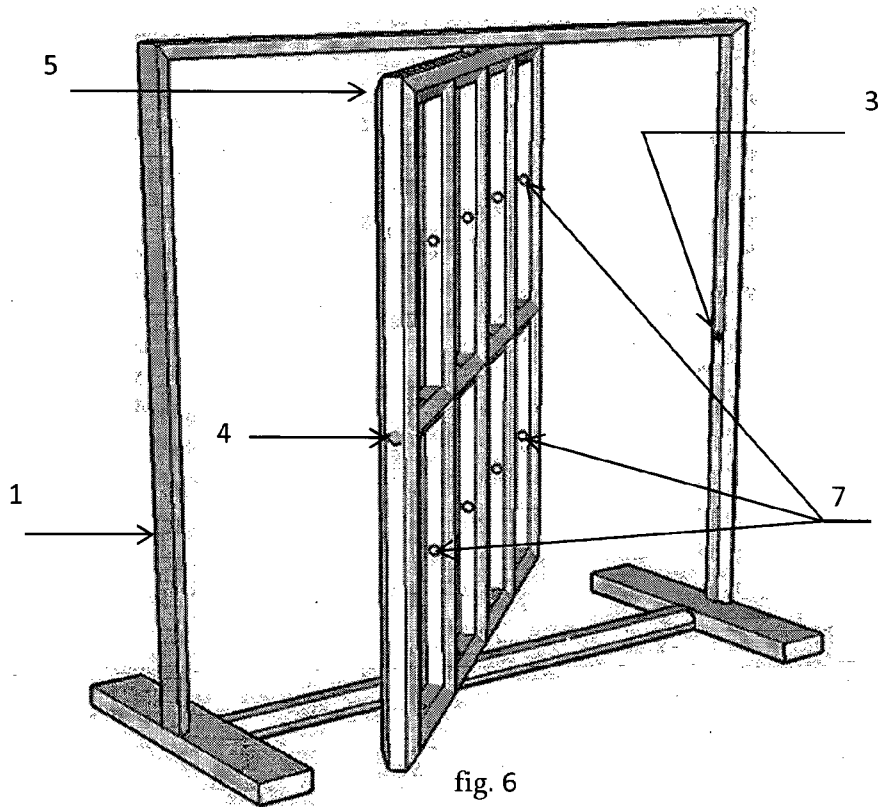


fig. 6

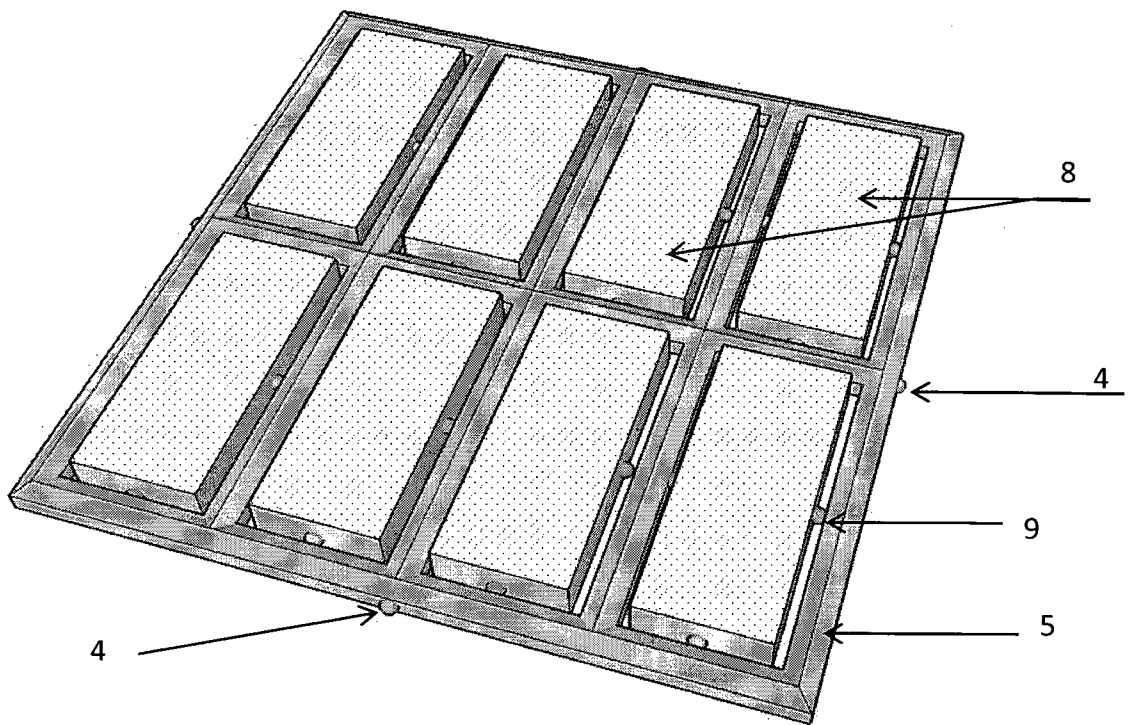


fig. 7

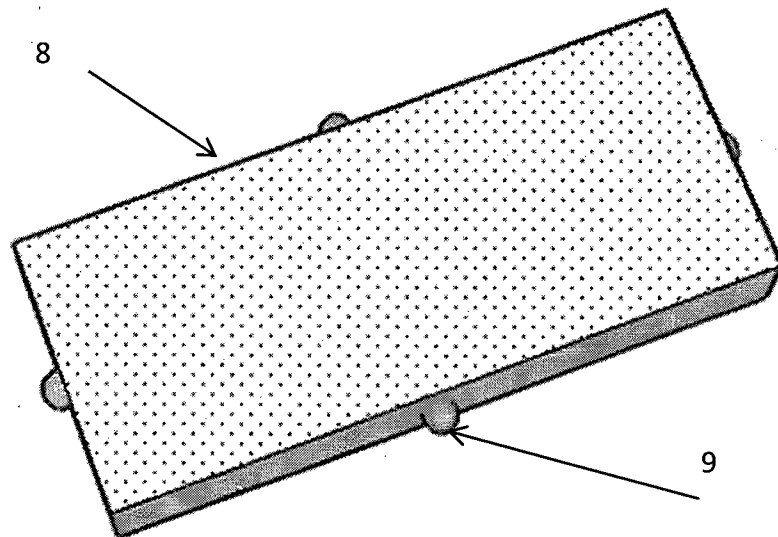


fig. 8

5/9

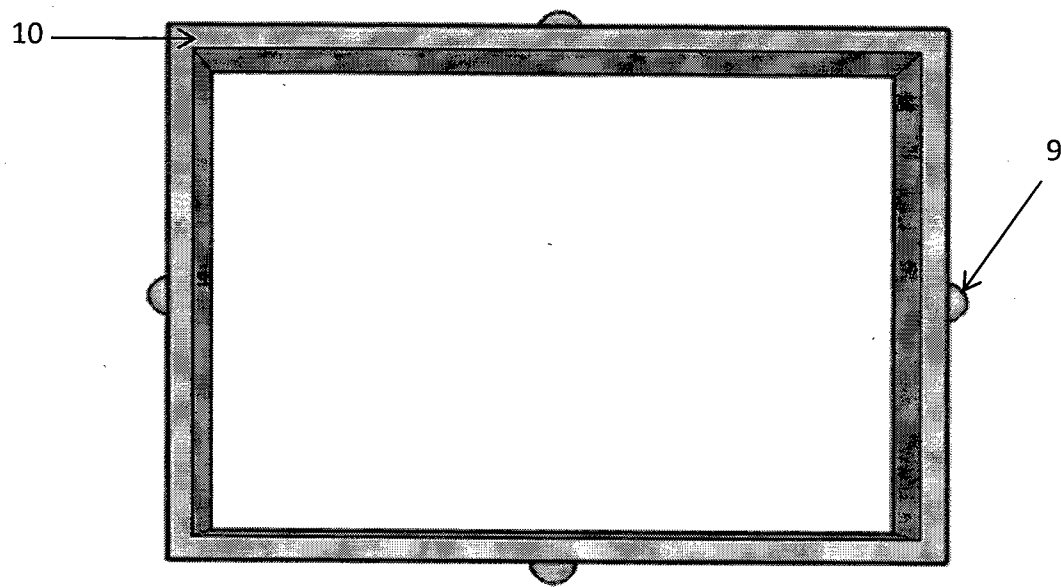


fig. 9

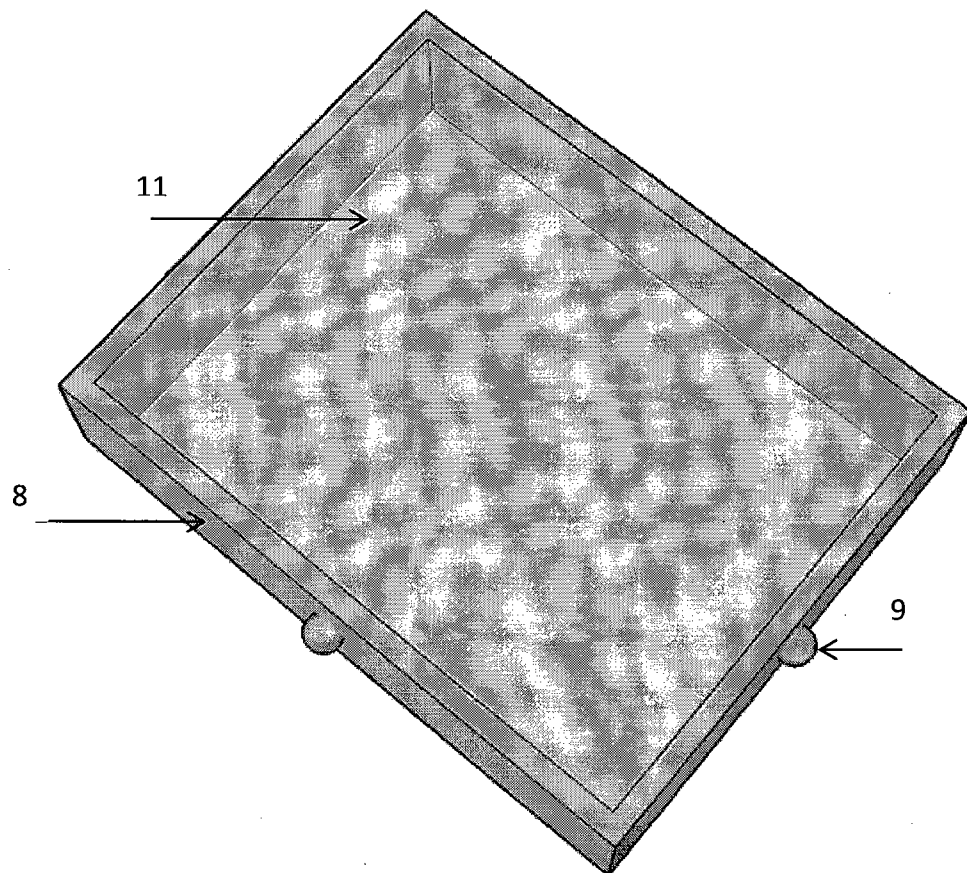


fig. 10

6/9

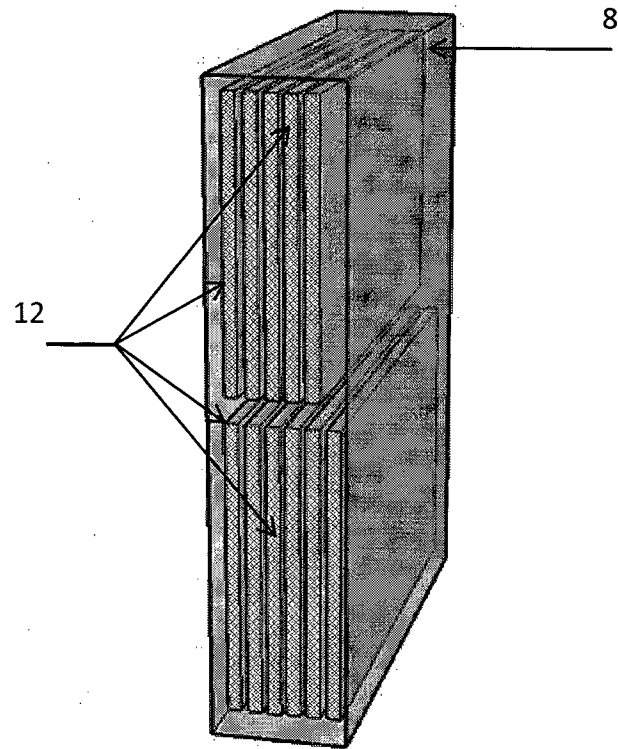


fig. 11

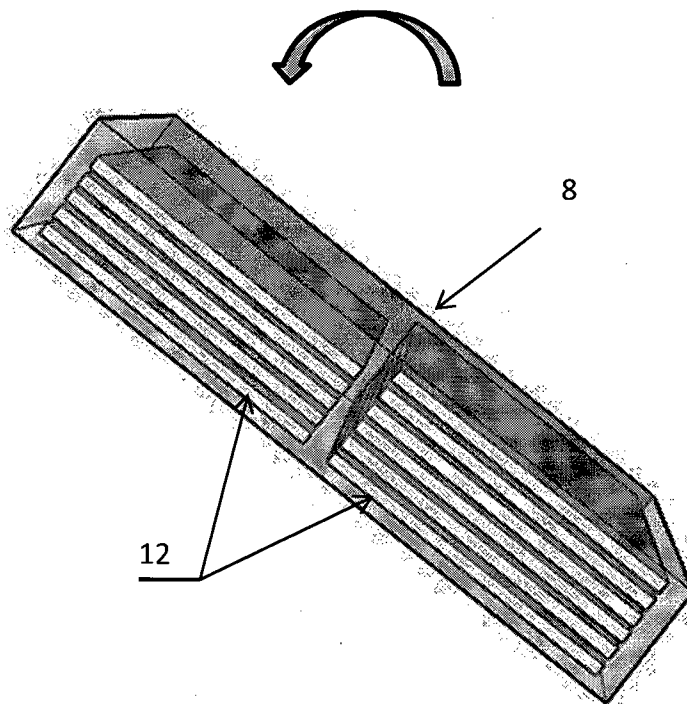


fig. 12

7/9

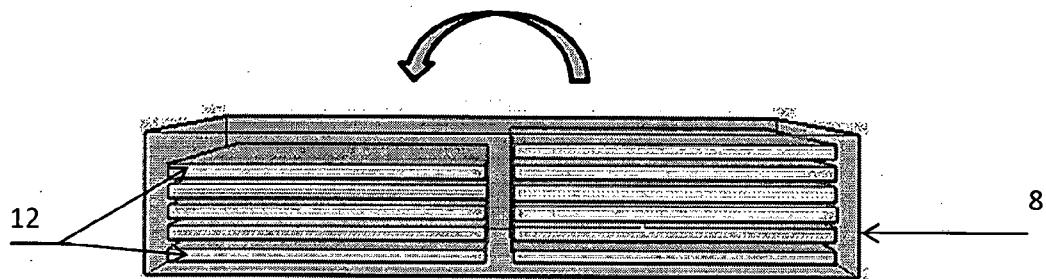


fig. 13

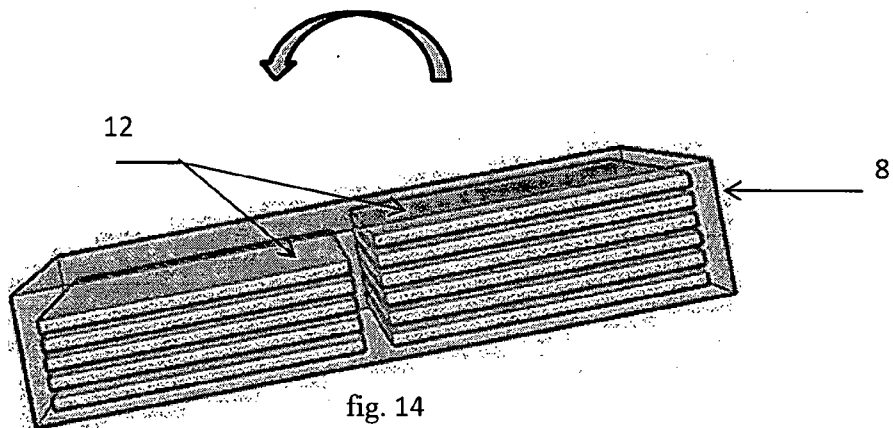


fig. 14

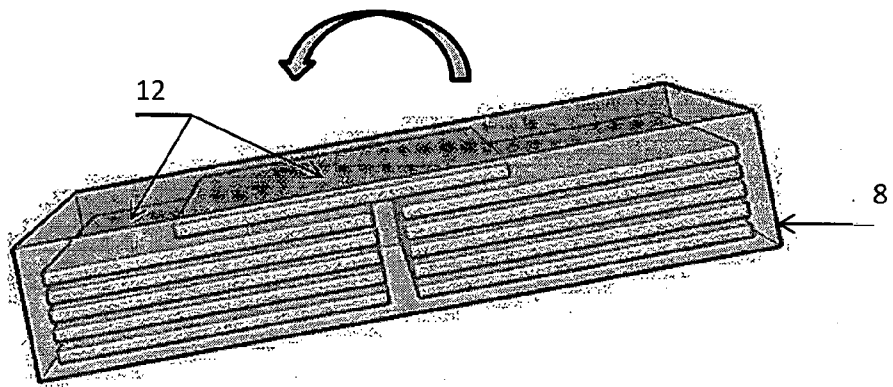


fig. 15

8/9

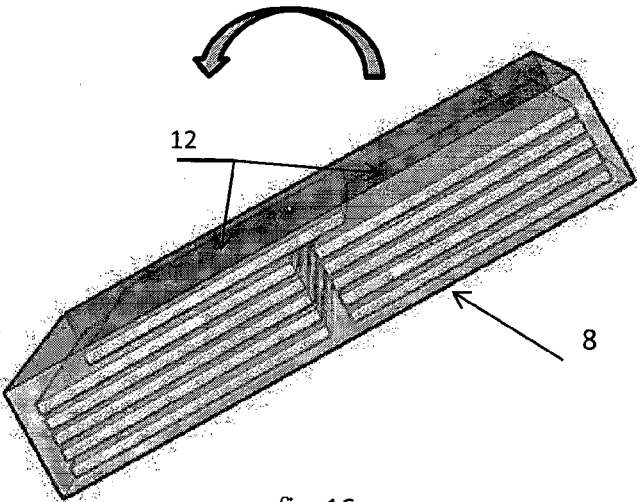


fig. 16

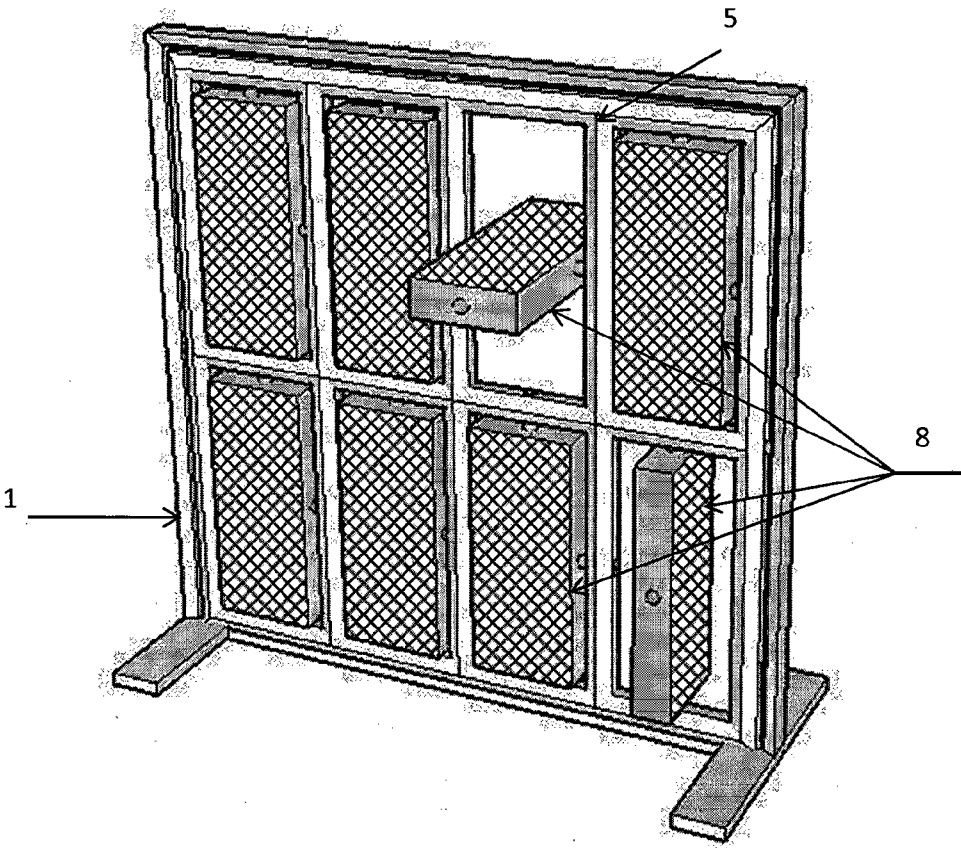


fig. 17

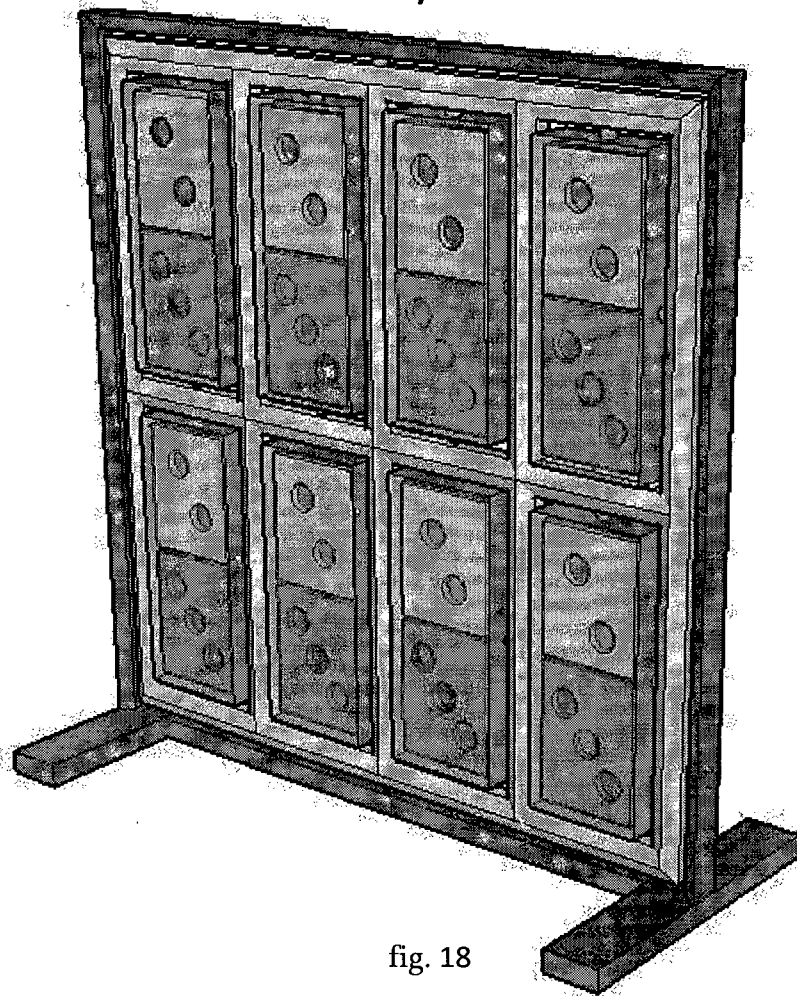


fig. 18

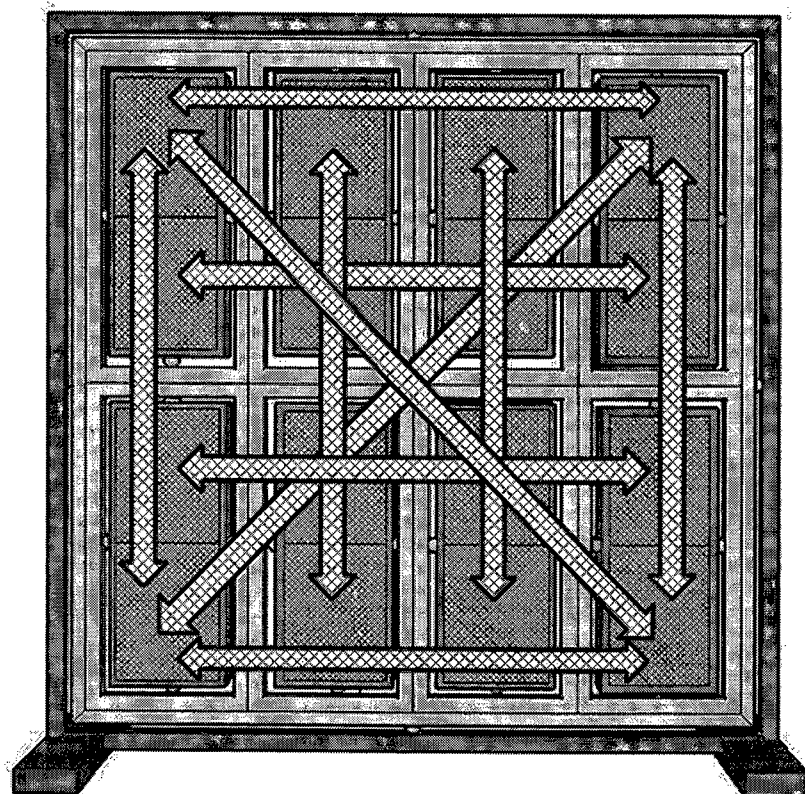


fig. 19

## INTERNATIONAL SEARCH REPORT

International application No

PCT/AM2012/000002

## A. CLASSIFICATION OF SUBJECT MATTER

INV. A63F9/08 G09F11/30  
ADD.

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)

A63F G09F

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)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2007/141774 A2 (SIRKIS PUBLISHERS LTD R [IL]; SIRKIS RAFAEL [IL]; SIRKIS ACKERMAN TAMA) 13 December 2007 (2007-12-13) abstract; figures 1-8 -----	1
A	US 3 842 523 A (YUMOTO H) 22 October 1974 (1974-10-22) abstract; figures 1-6 -----	1
A	US 3 680 867 A (ZIMMERMAN ROGER W) 1 August 1972 (1972-08-01) abstract; figures 1-9 -----	1
A	US 322 111 A (E. KÜRSCHNER) 14 July 1885 (1885-07-14) abstract; figures 1-5 -----	1



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

6 August 2012

Date of mailing of the international search report

21/08/2012

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NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040,  
Fax: (+31-70) 340-3016

Authorized officer

Shmonin, Vladimir



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/AM2012/000002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2007141774	A2	13-12-2007	NONE	
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US 3842523	A	22-10-1974	NONE	
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US 3680867	A	01-08-1972	NONE	
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US 322111	A	14-07-1885	NONE	
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