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MECHANISM COMMERCIAL SHOW-CASE

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Abstract: *This paper presents a Mechanism – Robot Commercial show proposed:*

This Mechanism Robot object is an industrial design, food shop, sports, military, pharmaceuticals, chemicals, etc. Exhibit. The Mechanism – Robot contains four levers wilbrochen boundless plates assembled for selting exhibits.

An electric motor achieve the movement of Mechanism – Robot with a Gearing Toothed or Mechanism Pully .

The Mechanism – Robot have a helicoid movement.

Keywords: *mechanism, wilbrochen, robot.*

1. INTRODUCTION

This Mechanism – Robot is a new design and prototypes proposed and object of in industrial design, food shops, sports, military, pharmaceuticals, chemicals, etc service exhibit.

The Mechanism – Robot contain (include) four levers wilbrochen boundless plates assembled for setting exhibit.

An electric motor achieves the movement of Mechanism – Robot has a helicoids movement.

2. MECHANISM – ROBOT MANUFACTURING

Construction Mechanism - robot is simple and can be built from an unlimited number of sub-components.

In Fig.1 Presents a schematic diagram of the mechanism - robot

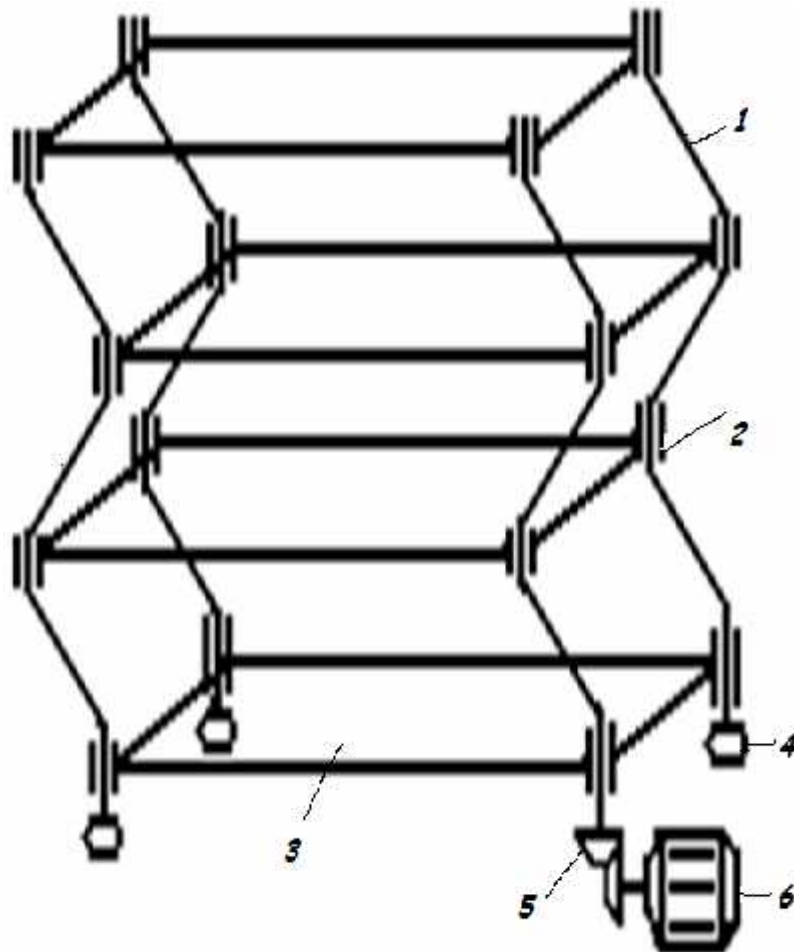


Fig.1. A robotic mechanism scheme.

1-Wilbrochen, 2. -Camp, 3. Motherboard, 4-medium; 5.angrenaj 6. Electric-motor

Construction Mechanism - robot is simple and can be built from a number of mechanisms - robot consists of four bars (levers) wilbrochen type (Fig. 2) with an arbitrary number of boards exhibits support for settlement.

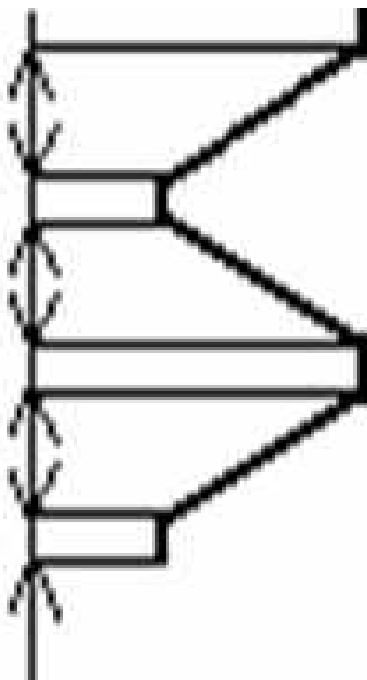


Fig 2. Wilbrochen

The four axes - willbrochen type bars are installed in a motherboard identical in shape and size with the rest of the support plate exhibits for settlement.

This motherboard is fixed, it does not perform any movement, the four corners with four type bearing bushes are placed in the four bars (levers) willbrochen type. (Figure 3)

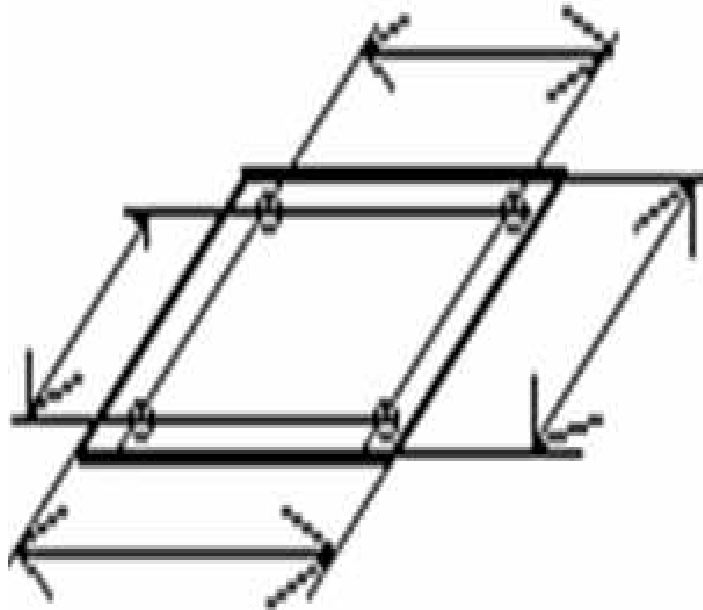


Fig .3 *Motherboard*

All cards also support placing the exhibits are provided with four jacks identical type motherboard camp in Figure 3.

Driving mechanism - the robot is done with a electric motor powered by alternating current electric power network voltage $U = 220 \text{ V}$ and low power (low) $P < 1\text{kw}$.

The transmission of rotational movement of the electric motor type in the four levers willbrochen is done with a bevel gear gear (5) driven by electric motor (6) whose maximum speed is reduced to $n < (10) \text{ rot / min}$. The entire mechanism - the robot is positioned on the supports (4) mounted to the lower ends of the ball willbrochenilor.

3. MANUFACTURING TECHNOLOGY

Materials of construction for components of the movement - robot commercials are likely metal: aluminum, brass, steel and organic nature of plastics, textolit, melamine, wood, panels made from wood chips bonded.

4. CONCLUSIONS

Mechanism - is simple robot construction point of view, having a lightweight construction, the mobile can be positioned anywhere in space, like in store, shop window etc. This mechanism - the robot shows a helicoidal attraction due to its movement and is less expensive (cheaper).

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