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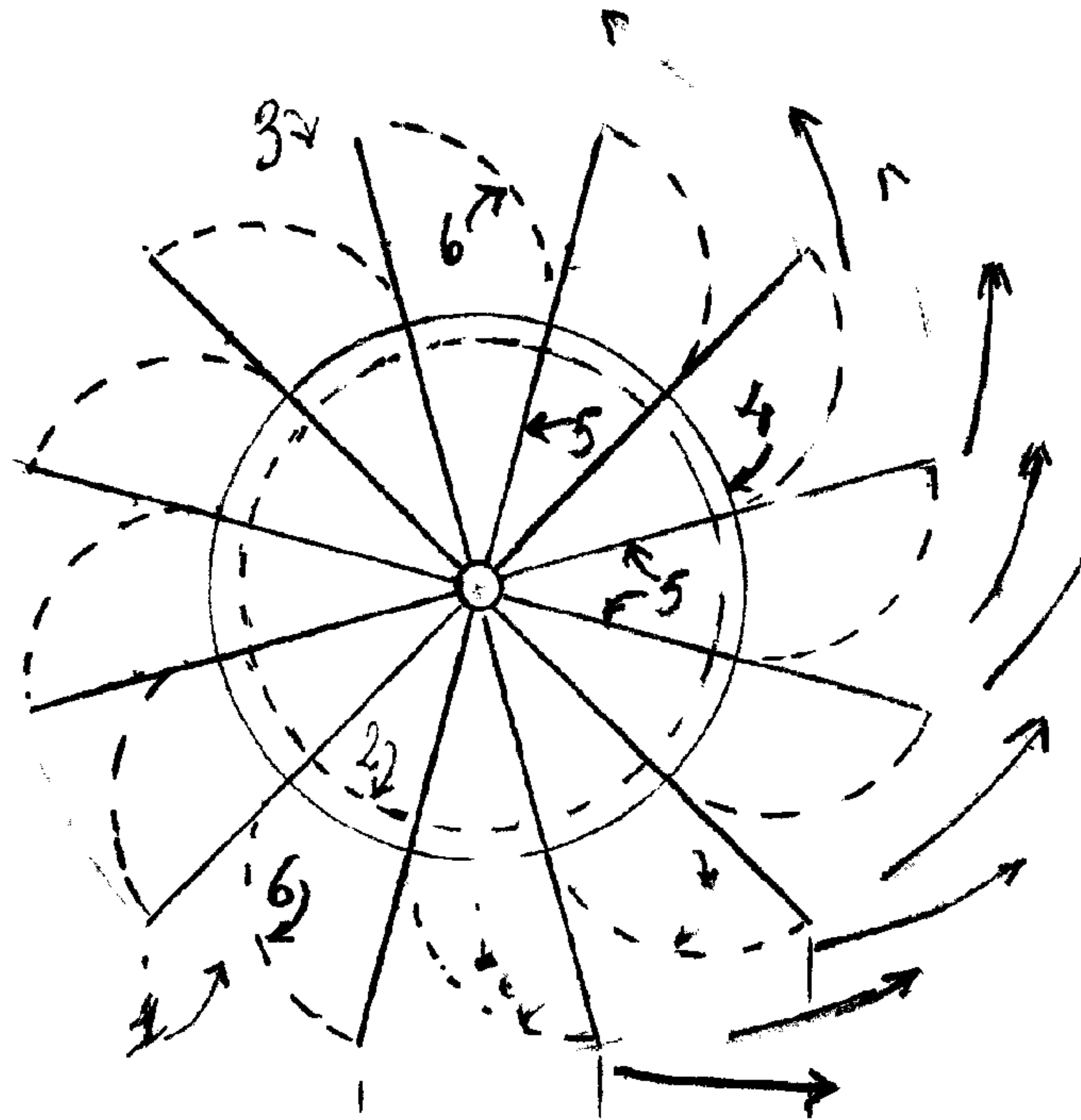
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(54) Titre : PROPULSION PAR TURBINE ET REACTION AVEC ORIENTATION D'AIR

(54) Title: AIR HARNESS TURBINE & JET PROPULSION



(57) Abrégé/Abstract:

The funnel is a horizontally positioned cylinder, with a centrally located cone, the diameter base of said cone is smaller than that of the cylinder, creating an air passage between the inner side of the cylinder and the outside perimeter of the cone. Placed as spokes on a wheel, there are partitions/gables, which extend to the cone bottom, in such location, they curve/bend at, perhaps, 90 degrees. I could call the partitions/gables: DEFLECTORS, since they redirect the wind, in to the turbine blades, in the most advantageous direction. The turbine consists of a circular sheet base, (diameter equal to the funnel's exterior cylinder), a hub, centered with the funnel base, and a number of "concave" blades attached, edge wise, to the sheet base and, end wise, spokes like, to the axle, hence, every blade creates an air pocket. The spend air exits centrifugally between the blades, creating jet propulsion.



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Abstract of the disclosure:

Air Harness, Turbine & Jet Propulsion.

My **Air Harness** main parts are the “**funnel**” and the “**turbine**”.

The funnel is a horizontally positioned **cylinder**, with a centrally located **cone**, the diameter base of said cone is smaller than that of the cylinder, creating an air passage between the inner side of the cylinder and the outside perimeter of the cone. Placed as spokes on a wheel, there are **partitions/gables**, which extend to the cone bottom, in such location, they **curve/bend** at, perhaps, 90 degrees. I could call the **partitions/gables: DEFLECTORS**, since they redirect the wind, in to the turbine blades, in the most advantageous direction.

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BACKGROUND OF THE INVENTION

The windmills were in use long before Don Quijote's time, so they are far from being a patentable modern invention. The original windmills consisted of sticks, canvas, wood gears and leader belts, if any. Today's **new** windmills consist of steel/plastic components, controlled by the most advanced technology, but, in reality, they are just an intricate copycat improvement of the old, and as such, they are plagued with inherent deficiencies, two of which are: **Fragility**, (they can not stand storms), and **Inefficiency**, (where ever there are alternative sources of energy, investors do not put their money on windmills).

Correct me if I am wrong: through out this planet of ours, thousands of technocrats (self-called inventors) have devoted millions if not billions of dollars trying to improve the windmill. **Trying** is the right word for in reality, I do not think that Don Quijote's windmills can be much more improved.

From the negative scrutiny of the old windmills, I came to dissect the multi blade ones, the ones one can see on farm/cattle land. Relatively of small diameter. Why are they so small? Why there are so very few? The obvious answers are again **fragility** and **inefficiency**: the very same wind force that turns the wheel at front, albeit force some what diminished, comes behind to blow the blades in the opposite direction. I now came to the conclusion that, if one wanted to improve on windmills, one would have to start from scratch. (translated from my native language): "to erase and start anew", and that is exactly what I did.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS. Thus reads the patent form I take to guide me on this application, please reefer to the abstract. Any thing added here would be a repetition.

The embodiment details of the invention are illustrated by the following drawings in which:

Figure 1 is the top plan view of the apparatus. Top section, "**the funnel**" in solid lines, 3 is the out side cylinder; 4 the cone base; 5 the gables edge. Doted lines represent "**the turbine**" section below; 6 the

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concave blades; 1 and 2 are, respectively, the sheet base and the cylinder to which the blades are attached; the arrows indicate the direction of the out going wind, exerting there fore "jet propulsion".

Figure 2 is an elevation view of the apparatus middle cross section: 1 is the bottom sheet bas; 3 is the out side cylinder; 4 is the cone base; 6 are the concave blades. (At random arrows indicate the wind direction, as it enters).

Figure 3 is a top perspective view of: 5 a gable and 4 a blade; again, random arrows indicate the wind direction.

Figure 4 is much like figure 3: 4 is the cone; 3 is the out side cylinder.

The Wind Harness can be of a single funnel/turbine, always facing the wind:

Shown here extremely schematic, figure 5 is a side view elevation of a single Wind Harness: 8 is the pivoting point; 9 is the weathercock which will force the apparatus to always face the wind.

Or it will consist of a plurality of Harnesses forming a solid wall:

Figure 6 is a side view elevation of a wall housing a number of cylinders; facing the prevailing winds, the Harnesses here are stationary; there fore the dot lines 10, indicate the cylinder opening. Clock wise arrows 7, indicate the turbine rotation; anti clock wise arrows 11, indicate the "spend" wind direction.

Figure 7 is a partial top view of the wall figure 6: since the cylinders 3, are here, provably, stationary, the wall, concave, will always face the prevailing winds. It may be advisable to install shutter like panels 10 to redirect the wind.

First addendum to my patent petition, your file: J2484-2-3959.

Details of the newly added embodiments refer to figure 7, of the original petition, where, here, the main body of the "I-Beam", 54, is made of molded "particleboard, 'shavings' 'sawdust". In other words, it could be made of any shredded wood, new or scrap material, reinforced either with:

A mesh, 53a, which could be made out of plastic (nylon); metal (similar to steel belted tires); or natural fiber,

and or:

An outer layer of wood veneer or galvanized metal, 55,

and or:

A metal "flange wrap around" 56, (the pointed parts 56a, are bend in wards and, the points as nails, pressed on to the flange).

I here for claim the exclusive inventor's right to make "I-beams" out of "particle board" / "shredded wood"; with or with out the above mentioned: reinforcing meshes; the outer layers, wood or metal; and the most important "Flange Covering".

Second addendum: The here added figures 23, 24, 25 and 26 relate, of sort, to figures 1 to 5 of the original petition, but here the "boxes" are bottomless, "frames", a kin to Apiary Equipment:

Figure 23 is a side view elevation of a honeycomb frame and figure 24 is the end view of the same, Please consider Nos. 58,59, 59a, 60a and 60b, five numbers, the honeycomb frames now in use, as far as I know, are made, **quite fragile**, out of five pieces, my honeycomb frame will be made of a single laminated piece frame. The top bar 57 is like the ones now in use.

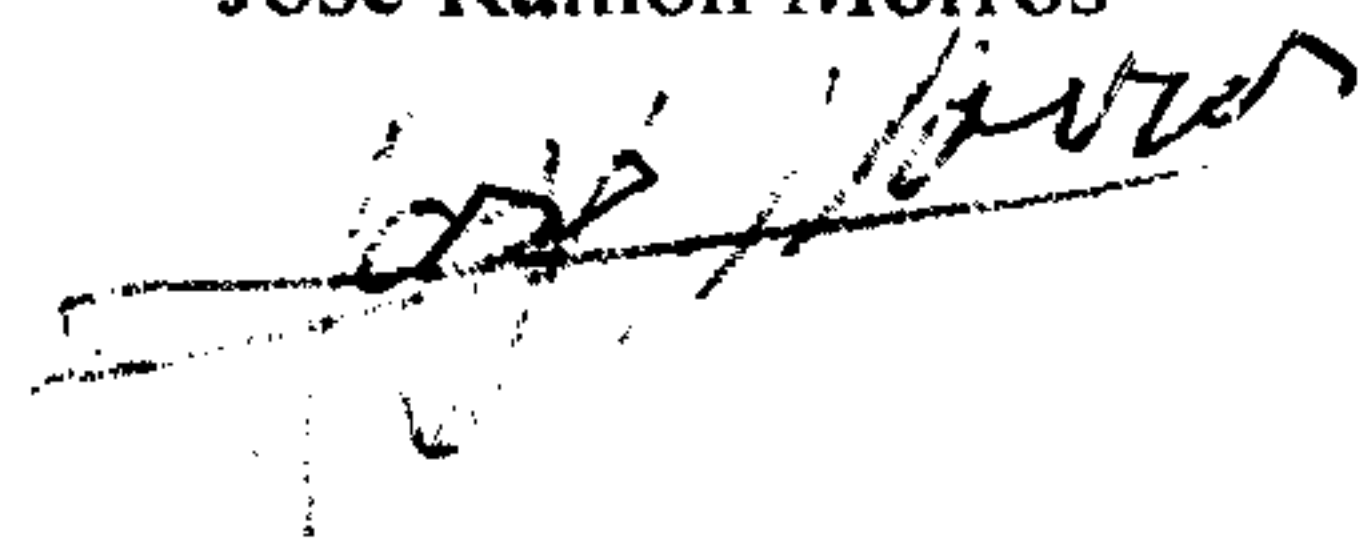
Figure 25, shown here, partly only, is my "Apiary Box", made out of a single laminated piece, where as the wood "boxes", now in use, are made out of four side pieces, some dove tail joined, some just but end nailed together. **Quite fragile in any way.**

To explain figure 26, one must know that it is, (relatively), best that beehives should be kept at a particular temperature, (which, in reality, the bees work hard to keep it so). Making a long explanation short, figure 26 is an insulated "box", which should facilitate temperature control: 62a and 62b are, respectively, the inner and outer shells; 63 is the insulated space; 64a and 64b are, dotted lines, edge protection frames.

I here for claim the exclusive inventor's right to make apiary equipment out of my Crisscross Diagonal Plies.

José Ramón Morros

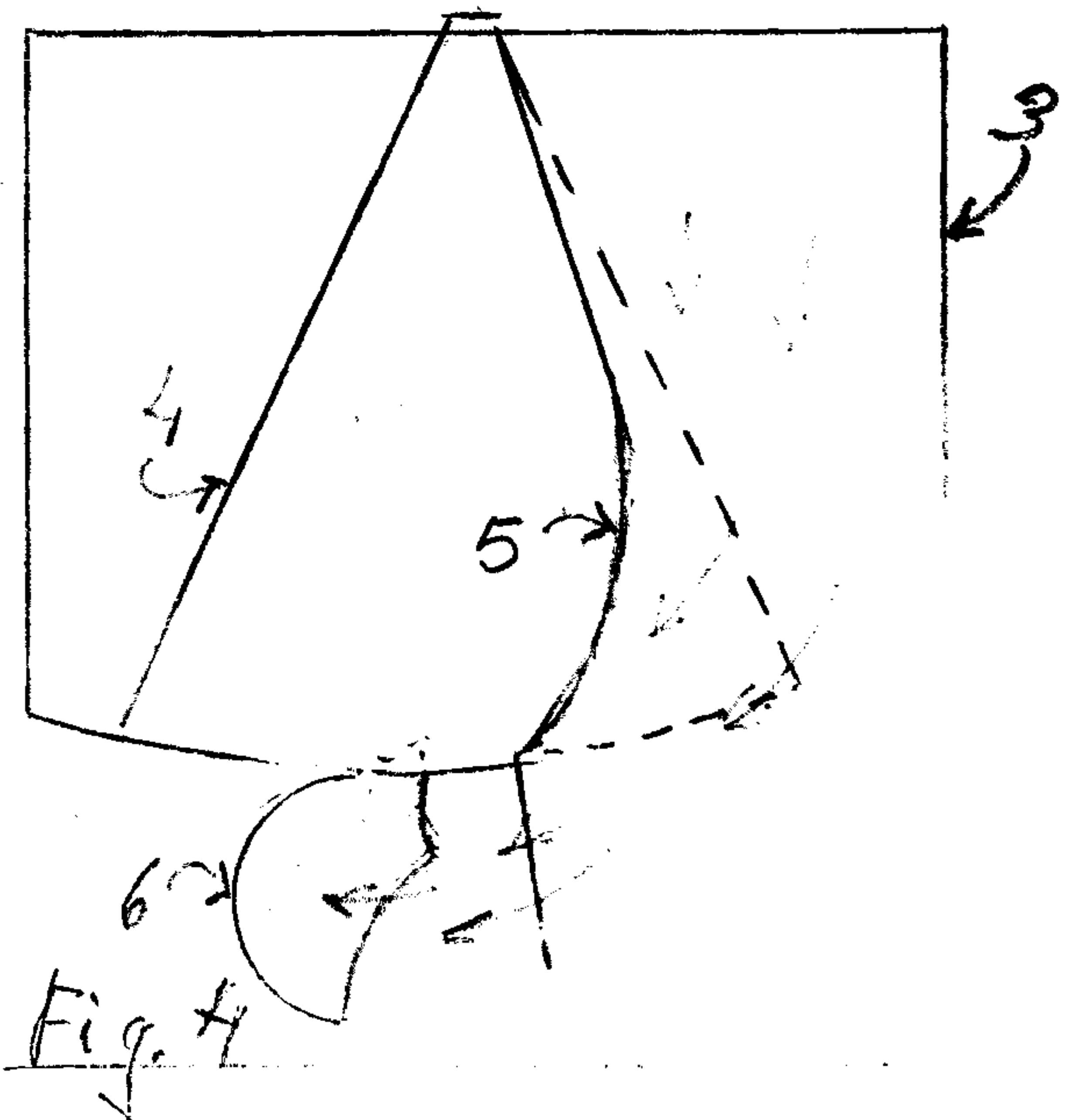
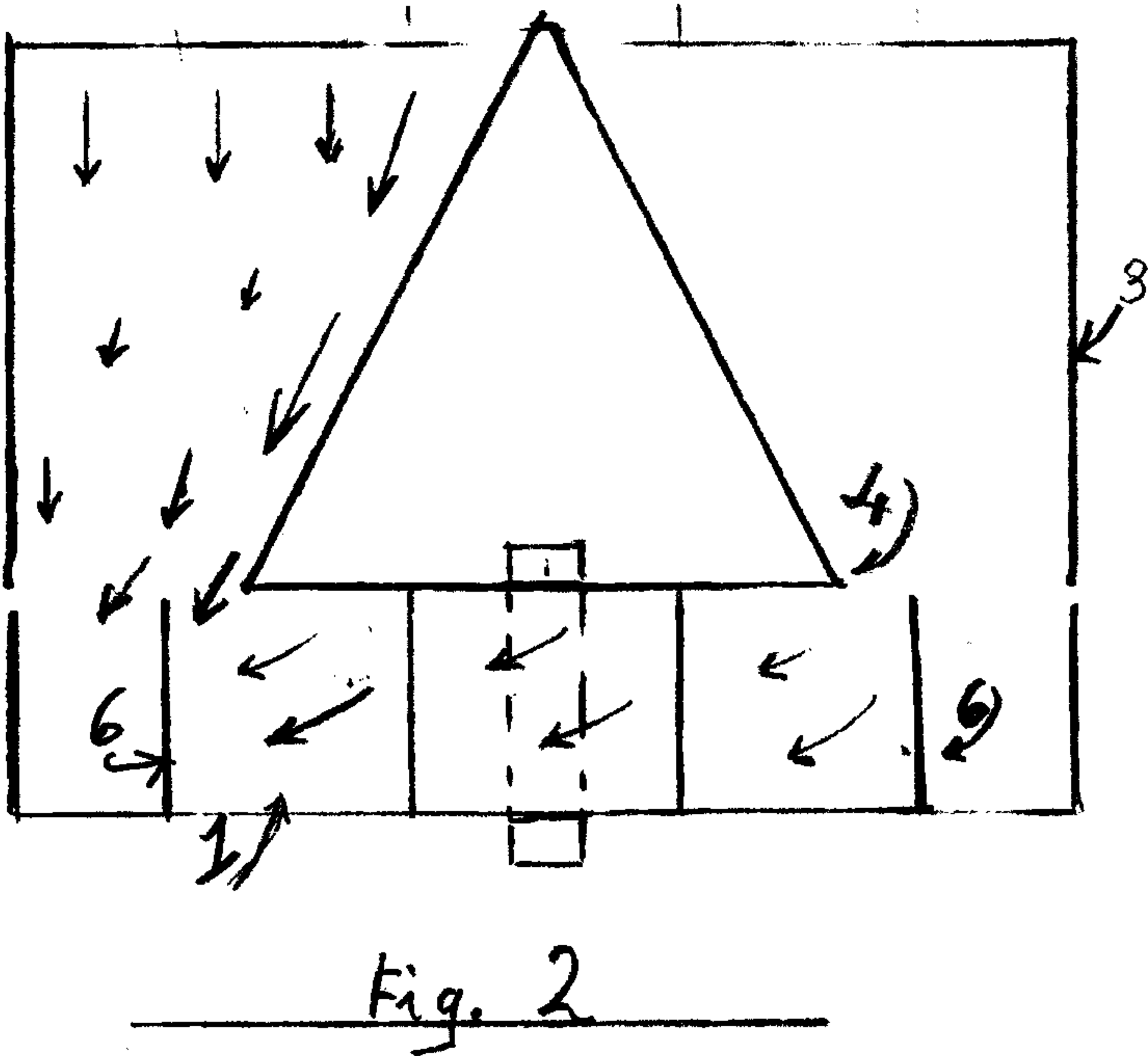
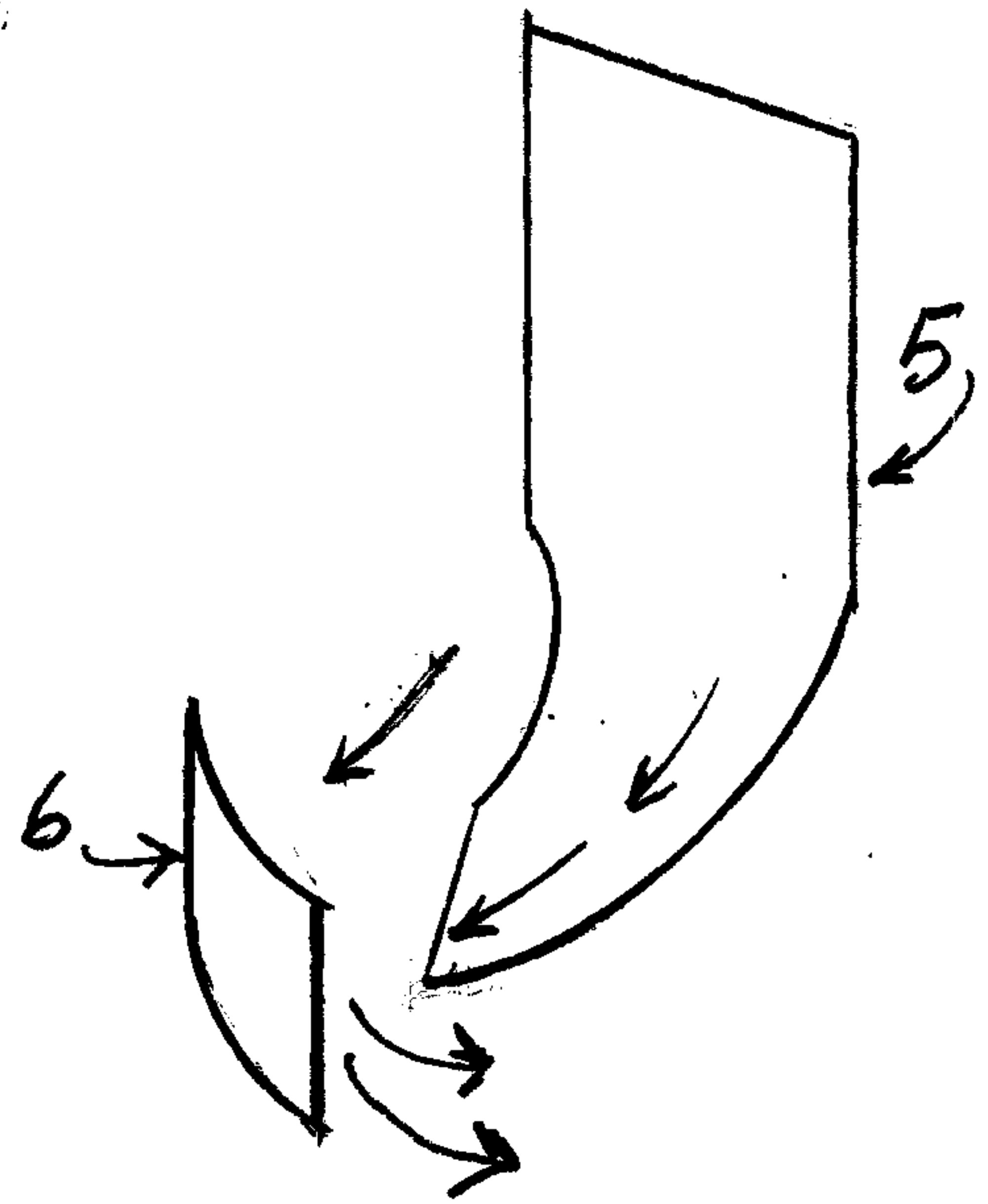
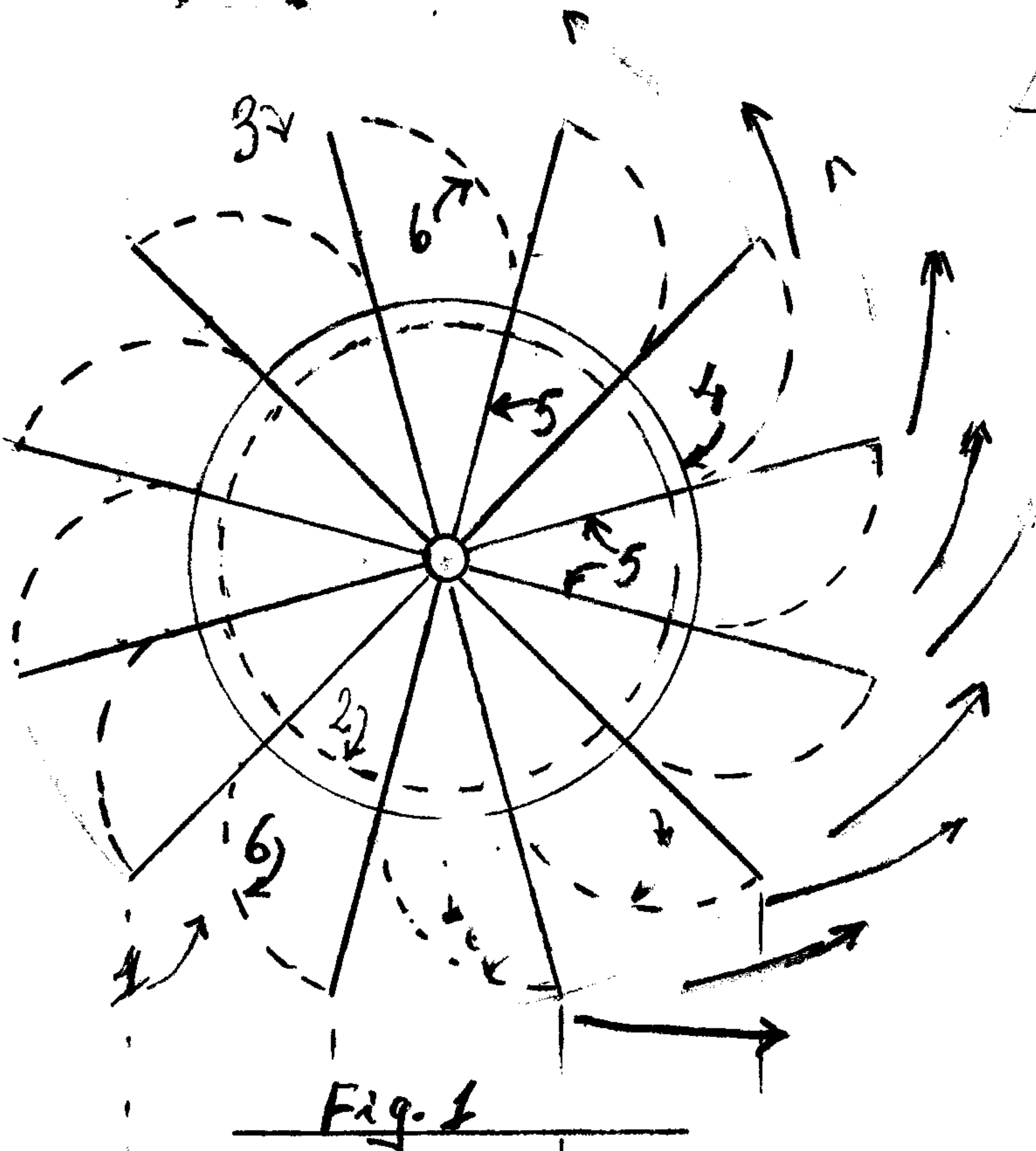
Calgary. April 28, 2006



I claim:

1. An apparatus to Harness the air energy comprising:
 - (a) a generally horizontal cylinder, termed herein the **funnel**:
 - (b) the **cone** within the **funnel** and a plurality of concentric gables, "**deflectors**", attached, spokes like, between said **cone** and **funnel**, the back end of which is circularly bend, thereby forming centrifugal helical paths;
 - (c) the **turbine**, mounted adjacent to the **funnel**, which comprises a **central axle, hub; a circular flat sheet base** and a plurality of **concave blades** attached to said hub and base.
 - (d) I also claim the discovery that the "**spend**" air, coming out between the said concave blades, exerts an additional jet propulsion force. In commercial operation, I fore see and claim the possibility of installing "regulators" "shutters", which will control the air pressure throughout the whole system.

Air harness 1 of 3
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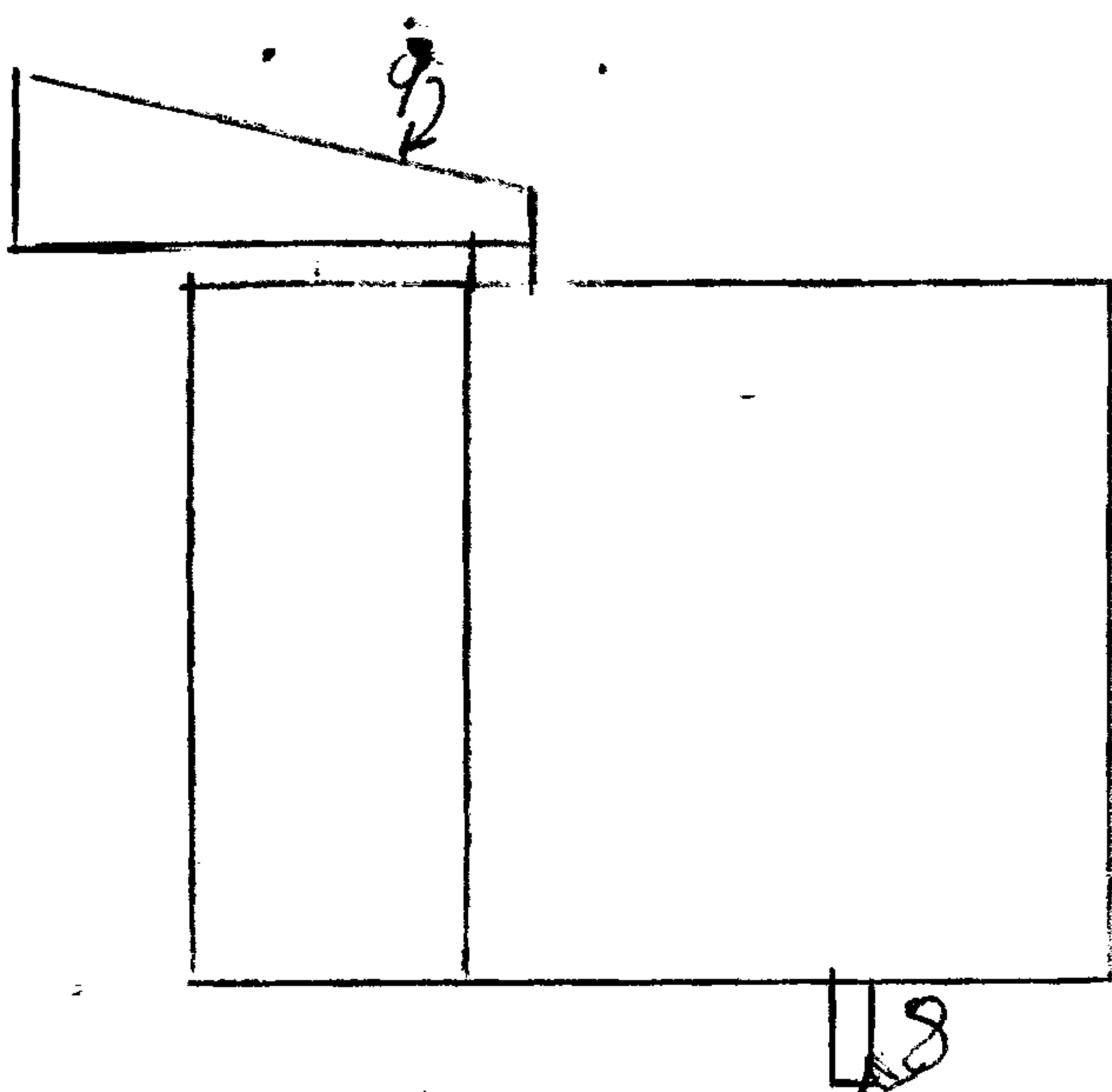


Fig. 5

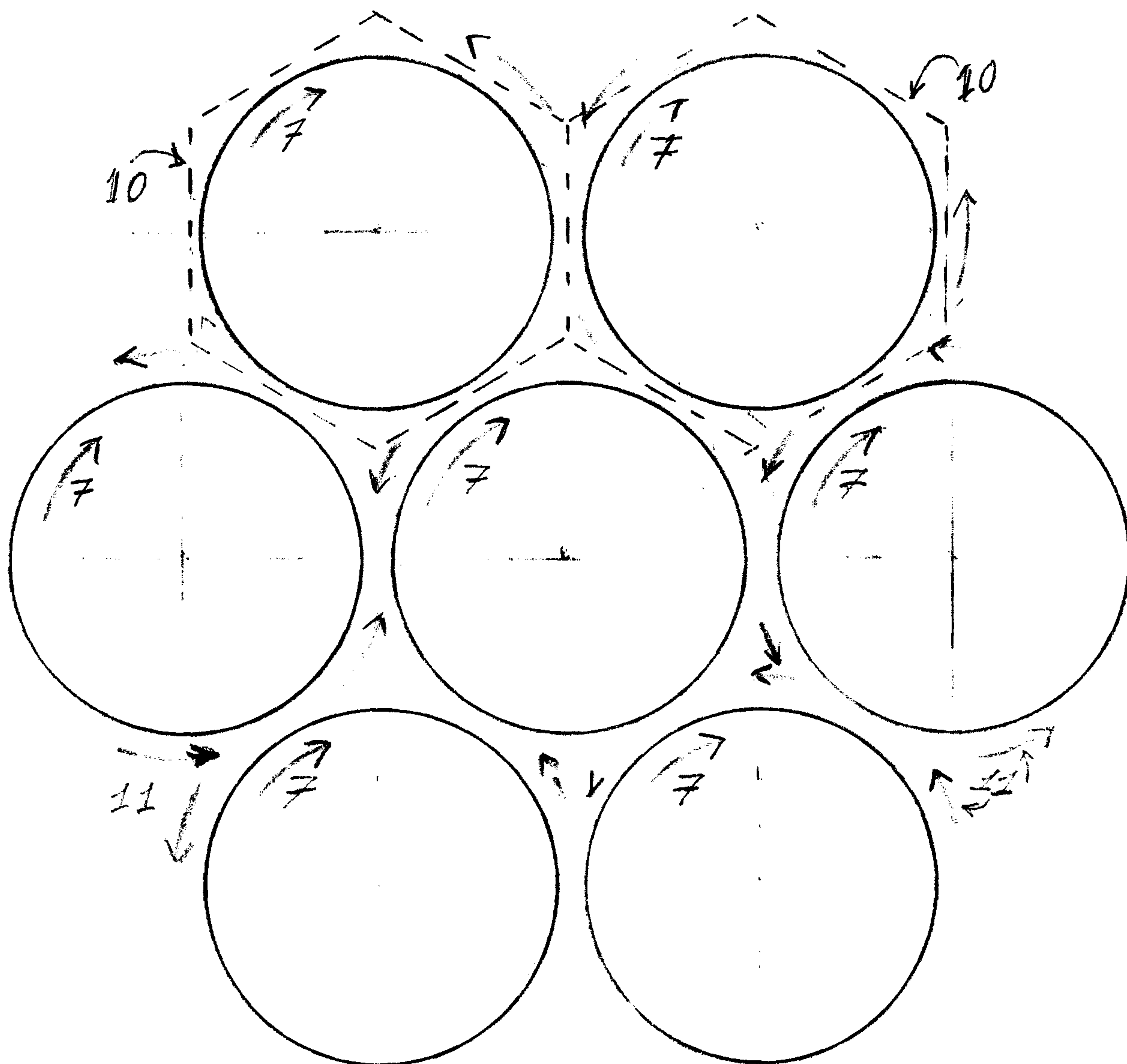


Fig. 6

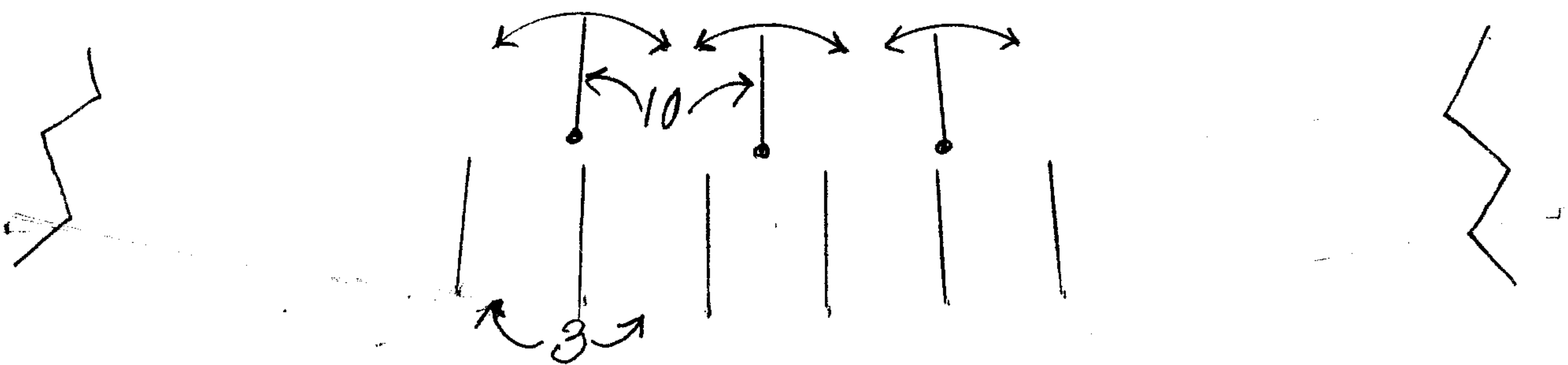


Fig 7

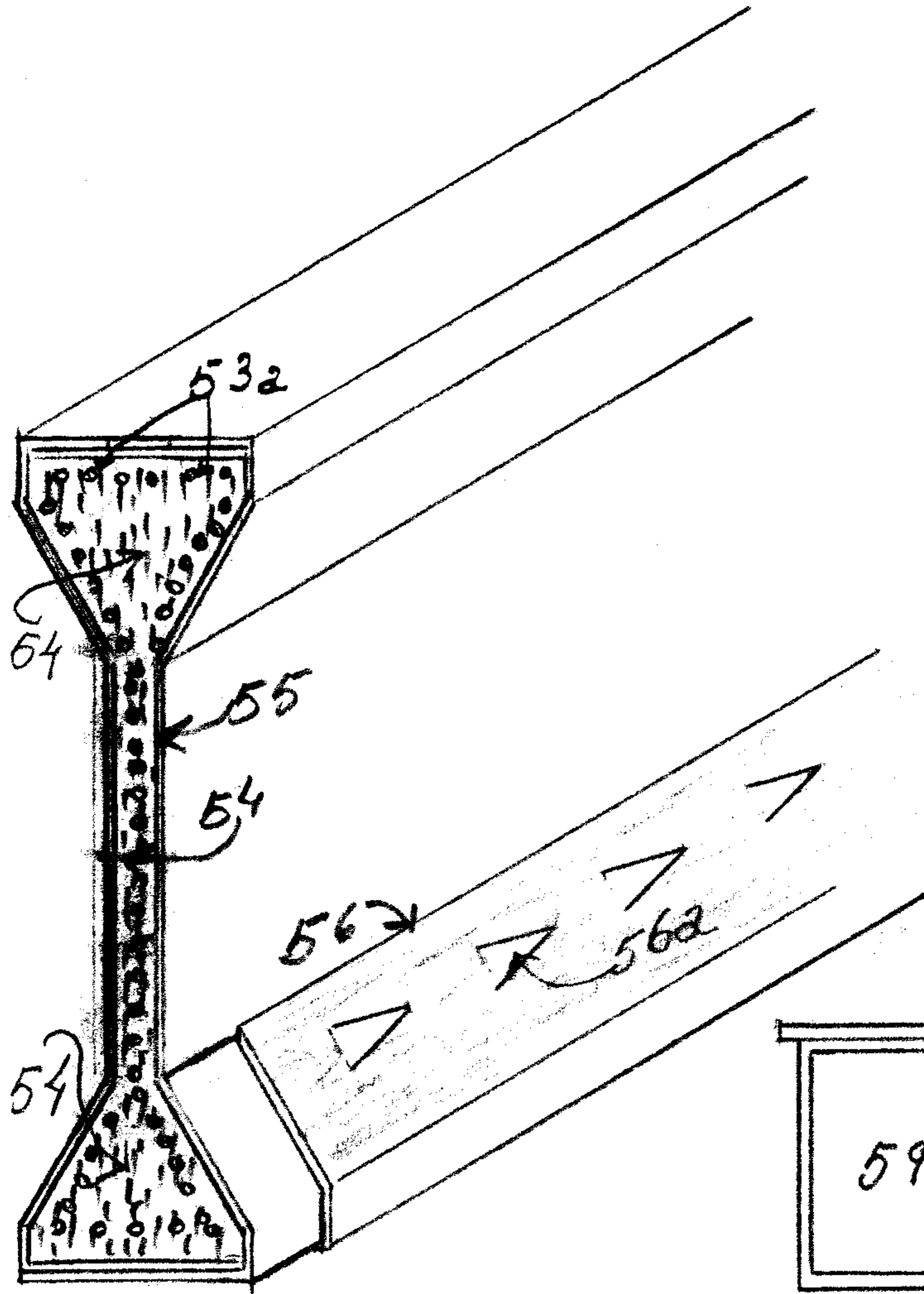


Fig. 22

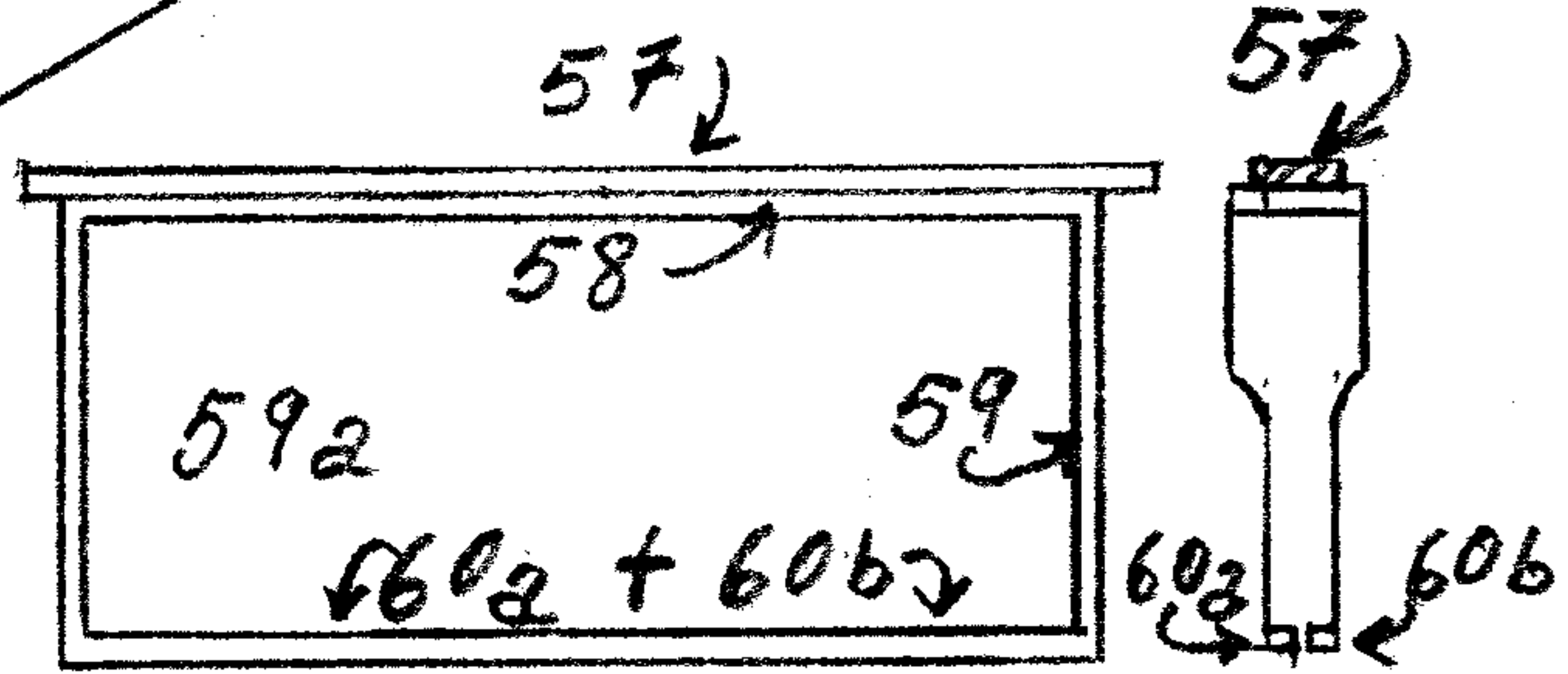


Fig. 23

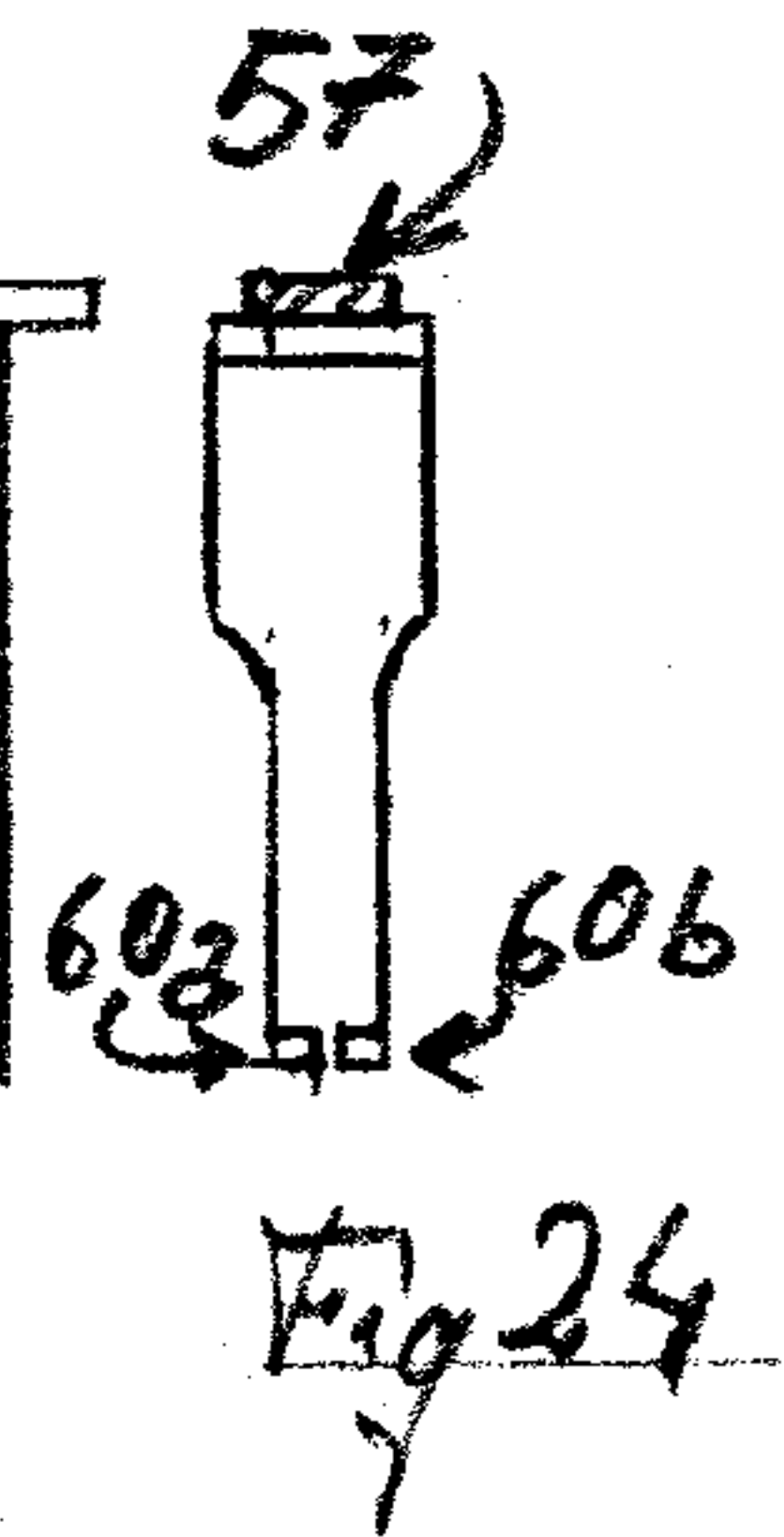


Fig. 24

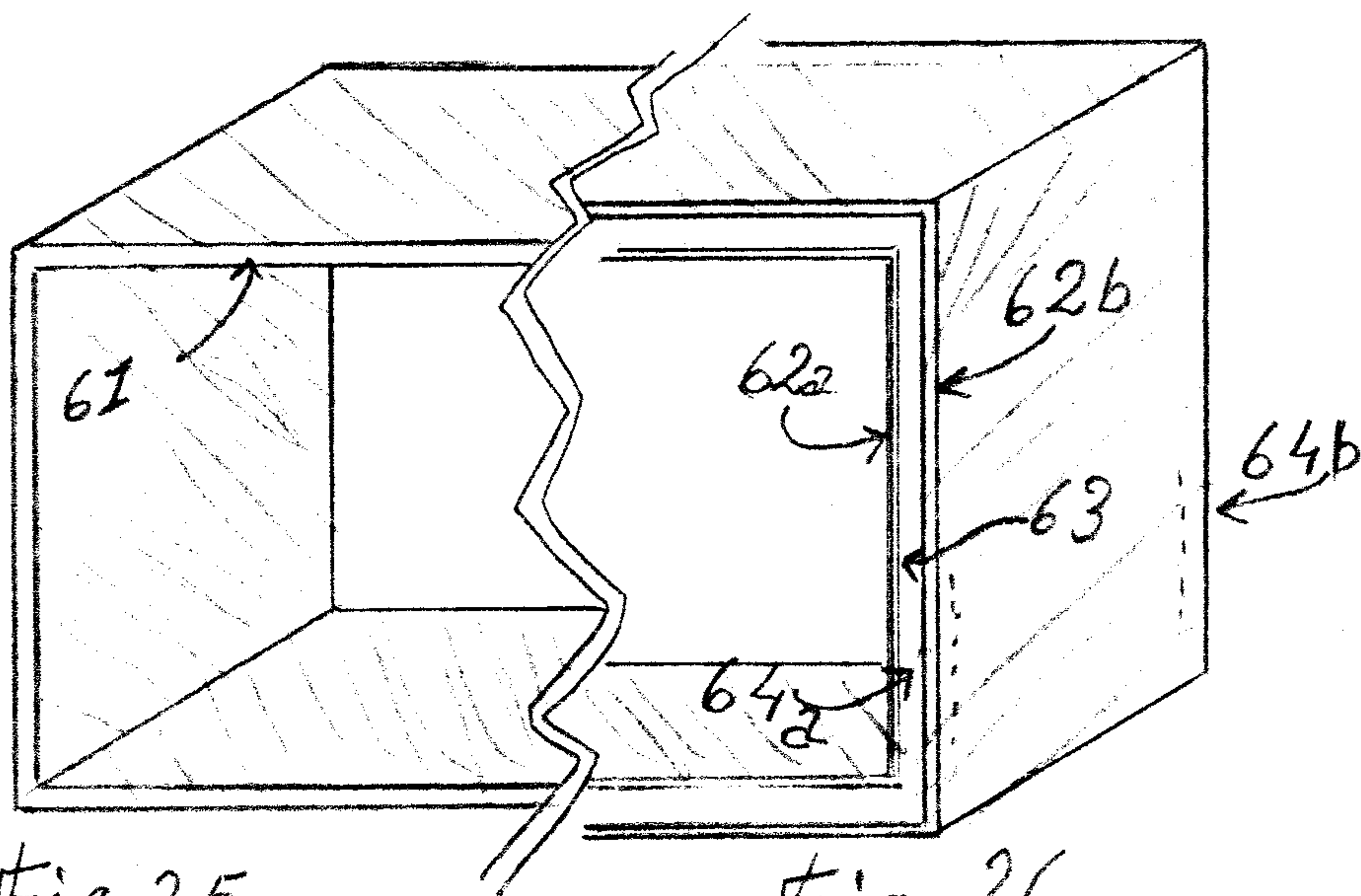


Fig. 25

Fig. 26

