

A large, bright sun dominates the center of the image, casting a warm, glowing light. The background is a soft, radial gradient transitioning from bright yellow at the center to a deep orange and then to a darker, reddish-orange towards the edges.

POWERED BY THE SUN.

A RARE SWISS MADE CLOCK
1963

Released in
1962 this
unique electric
clock was sold
in limited
numbers in
USA and
Europe.

MONTRÉ ROYALE
de Genève

9, rue de Berne, 1211 Genève 1 Suisse

Harmonie des formes -
Suprématie de la qualité

LA PENDULE ROYALE ÉLECTRONIQUE,
CRÉATION UNIQUE

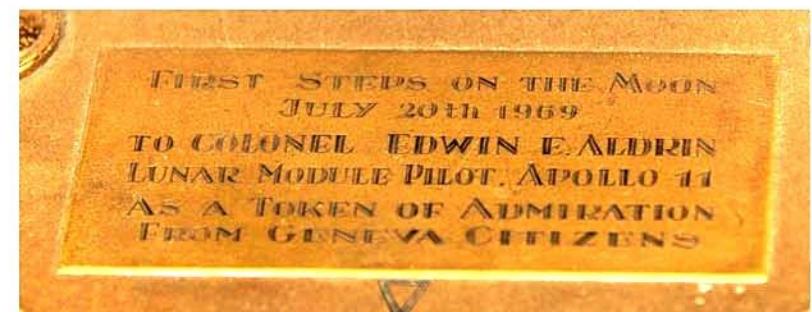
Aucune autre pendule au monde ne fonctionne comme celle-là. ROYALE ÉLECTRONIQUE vit de la lumière naturelle ou artificielle. Une lueur de 30 lux suffit à l'animer. Avec ses cellules photo-électriques fixées dans son socle mobile, elle tourne en silence sur elle-même pour capter la lumière. Elle la transforme directement en énergie mécanique, sans le concours d'une pile ou d'un accumulateur. Aucun remontage manuel. Une marche constante et sans histoire, durant des années d'affilée. Une prouesse technique sans pareille, qui fait honneur à l'horlogerie suisse.

30 cm de haut
27 cm de large



In 1969 the clock was presented to each of the crew of Apollo 11.

This one was given to "Buzz" Aldrin, the second man to step onto the moon.



Solar collector base patent.

FIG.1

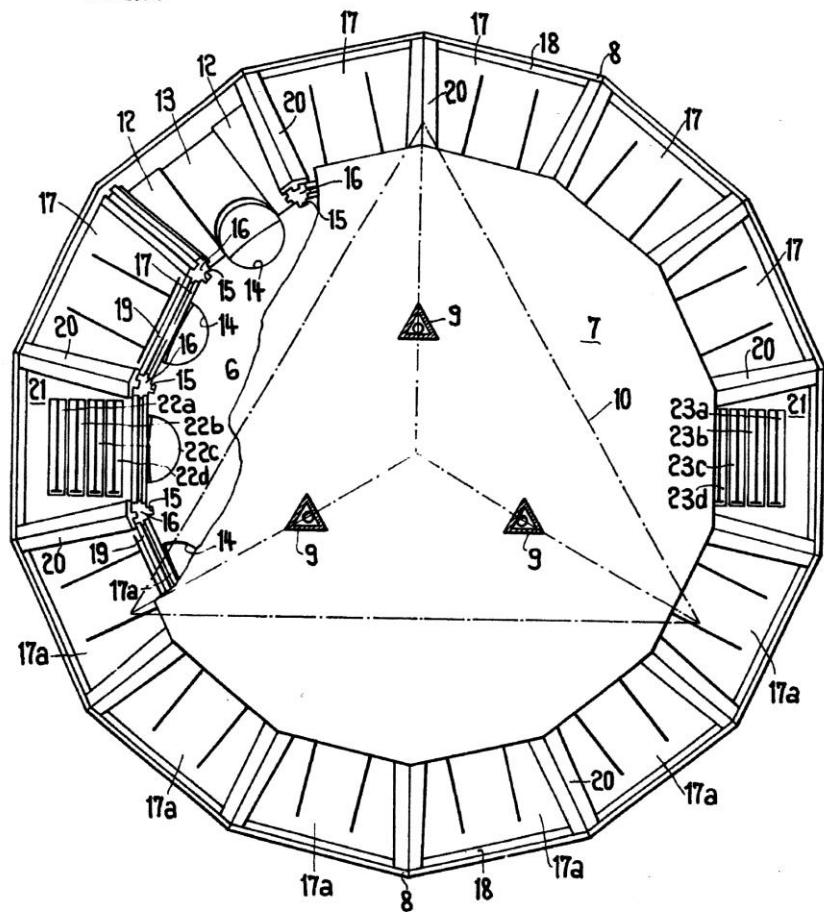


FIG.2

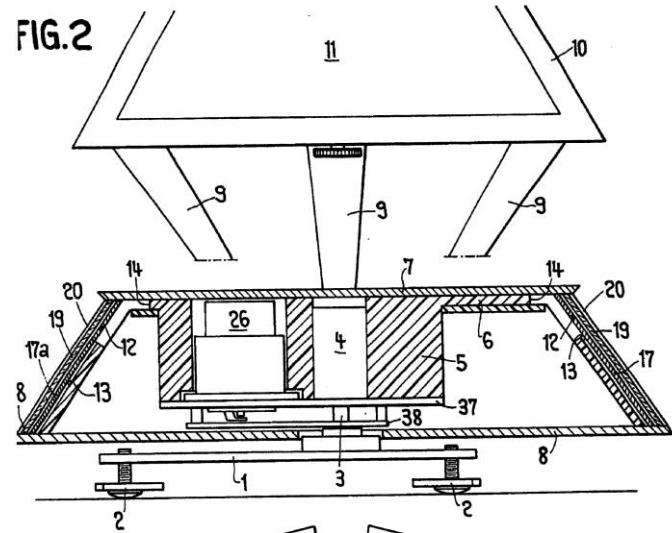
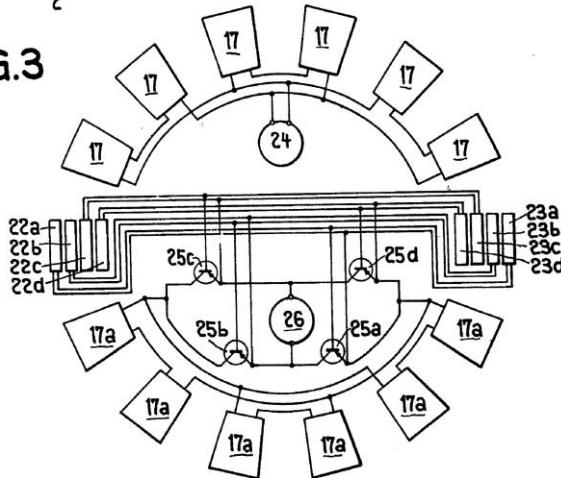


FIG.3



This is the rotating solar collector base.

It provides all the power requirements of the rotating base and the clock.

It has differential control using two opposite panels to determine the direction of the strongest light source.

The base motor then rotates the base to face in that direction.



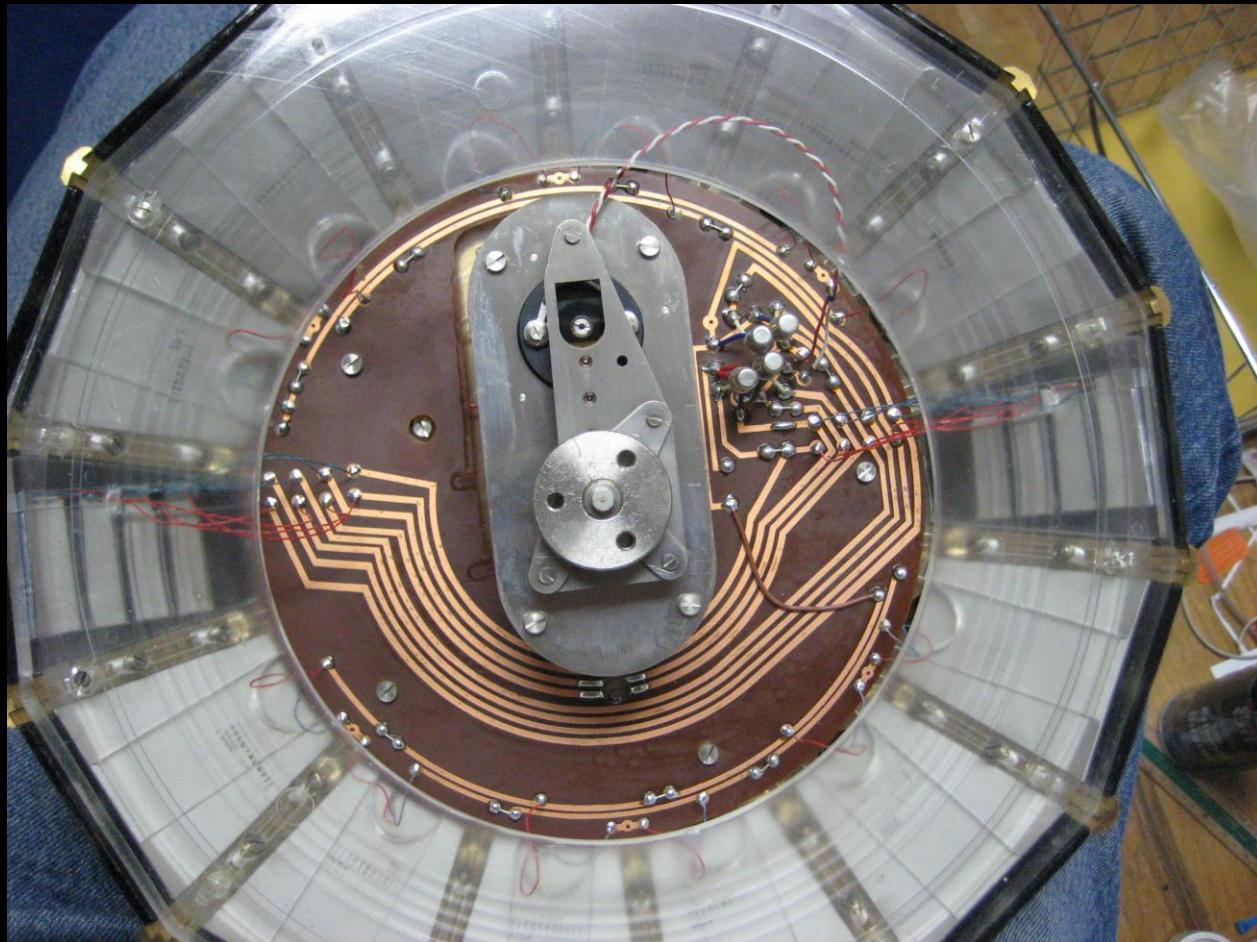
The triangular pedestal upon which the entire clock rotates.

Levelling feet at each corner.



Inside the base showing the base rotational motor and the rear of the solar cells.

The printed circuit performs the logic required for determining the direction of strongest light source.

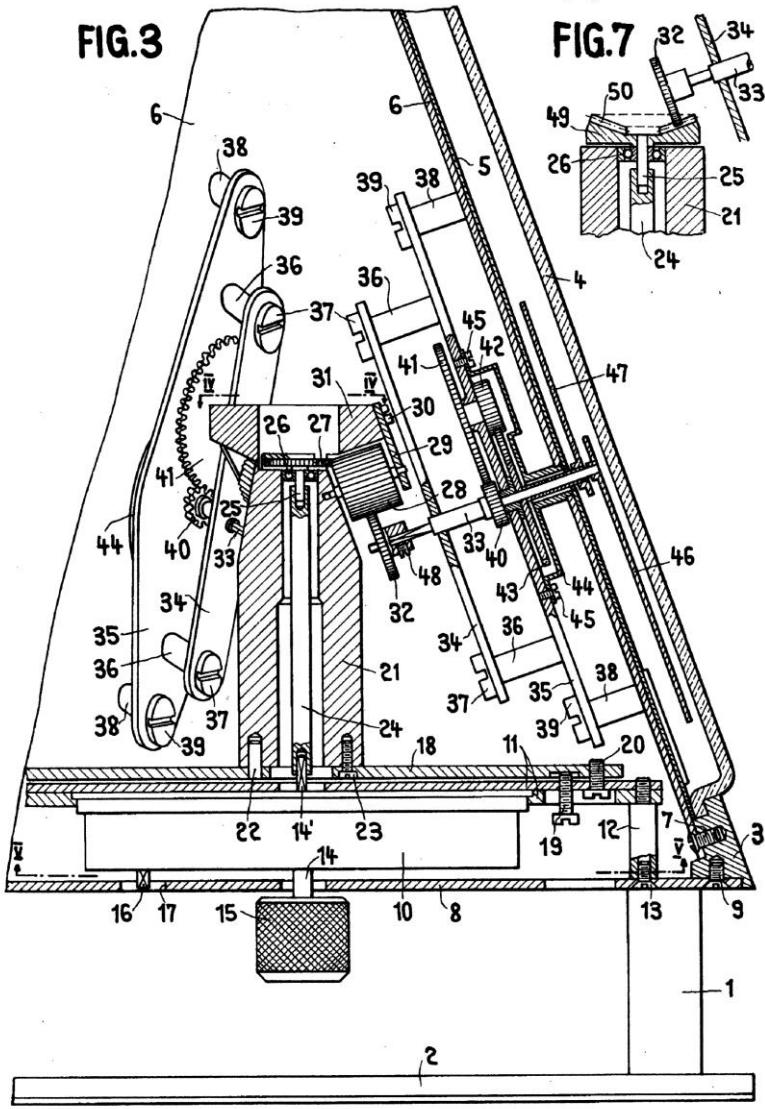
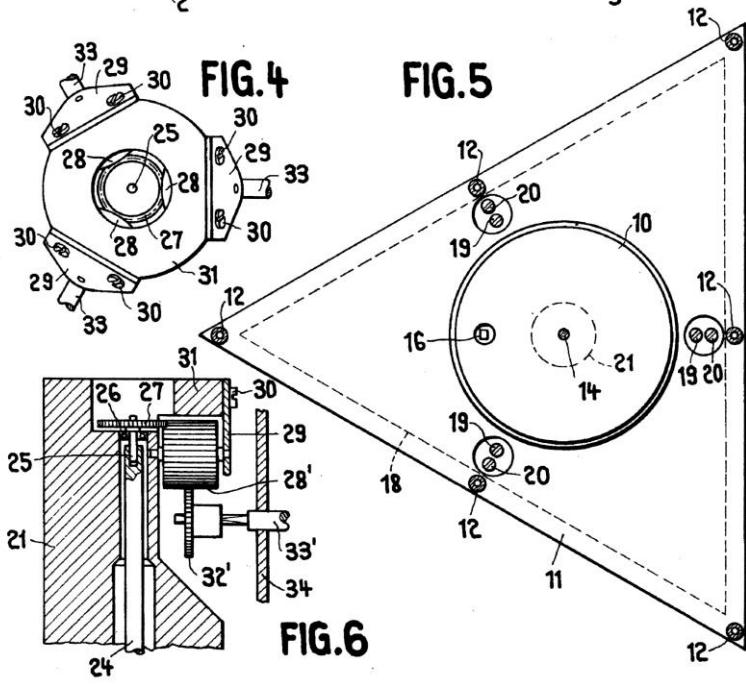
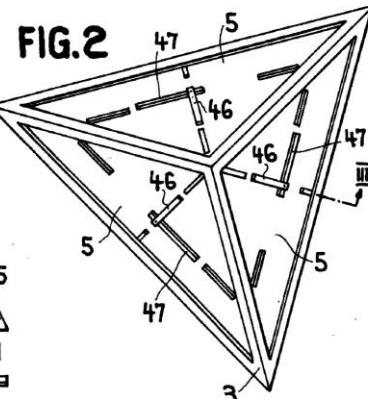
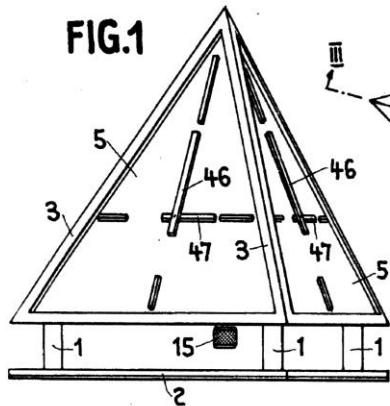


The three
sided pyramid
clock.

The dials can
be set for
different time
zones or all
the same
time.

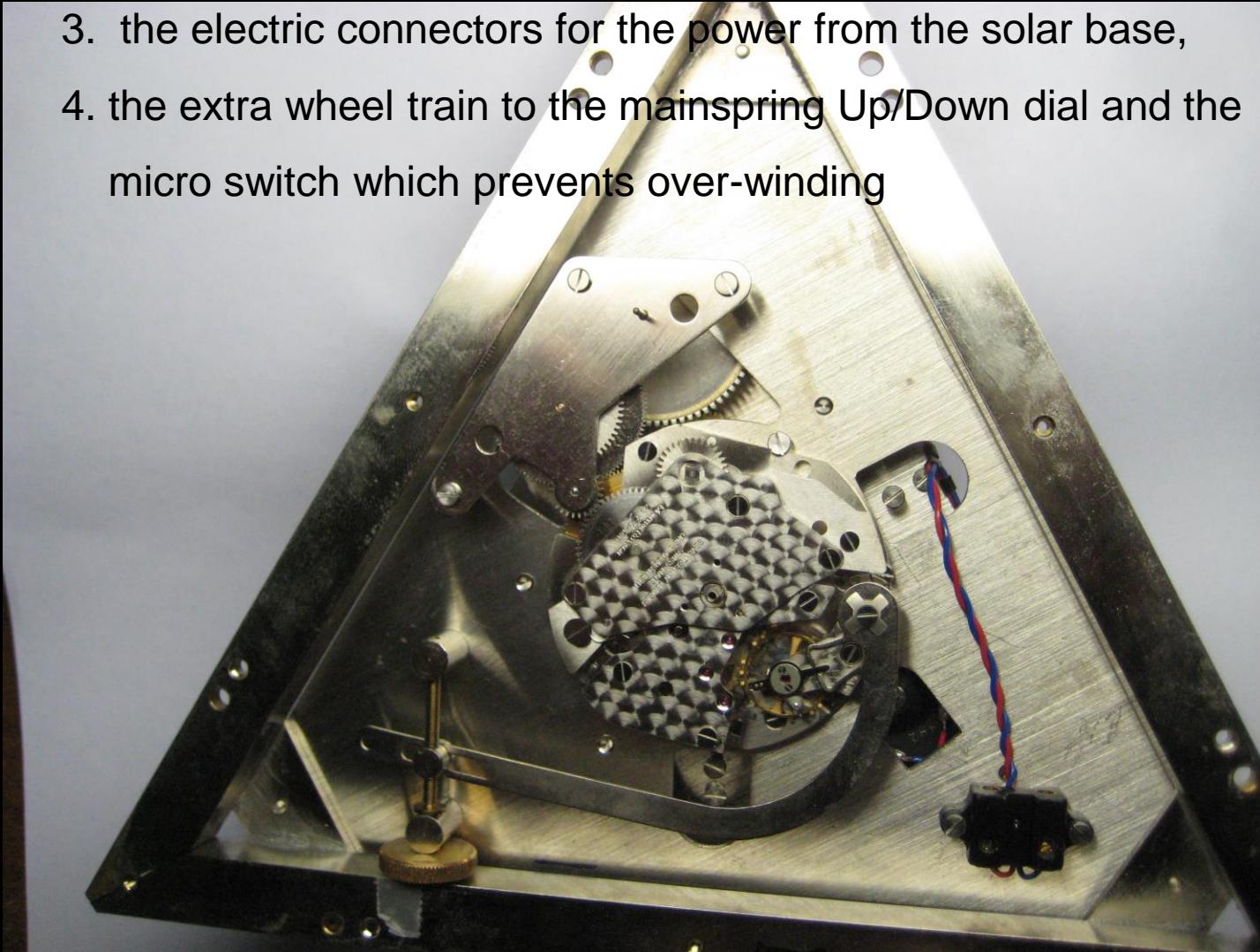


The 3-dialed clock pyramid patent



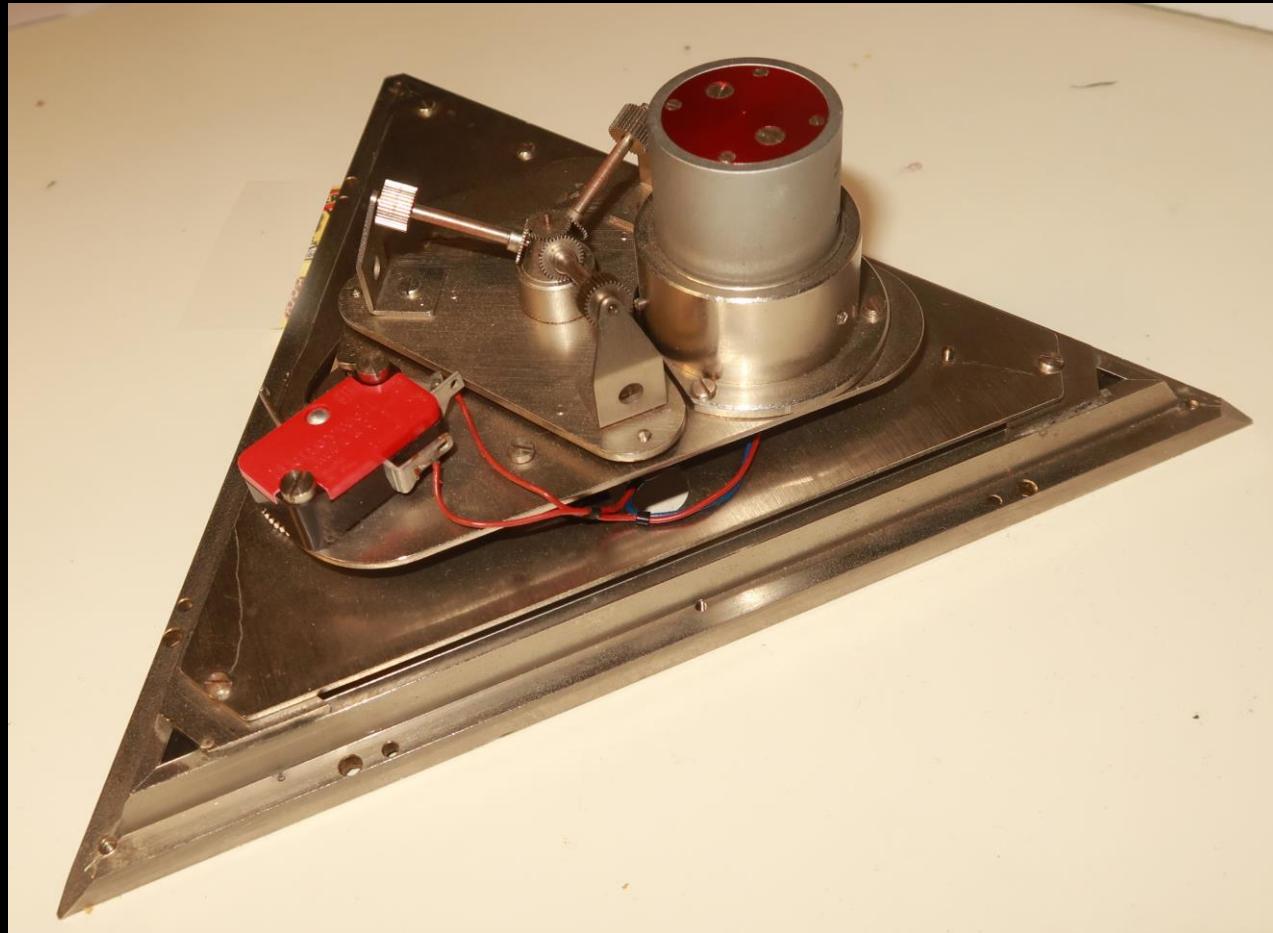
The underside of the pyramid base showing the :

1. clock movement , (Arogno Cal. 26N) ,
2. the rate adjusting lever and thumb wheel,
3. the electric connectors for the power from the solar base,
4. the extra wheel train to the mainspring Up/Down dial and the micro switch which prevents over-winding



Top side of the clock pyramid base:

1. the motor , driven by the solar cells, keeps the clock mainspring wound up.
2. the micro-switch which cuts out the motor to prevent over-winding.
3. the three drive shafts for the motion works, radiating from the central centre arbor.



Inside the pyramid showing the three sets of motion work.

