

Various documents related to the Strader Machine

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This file contains:

- Beitrage Nr 107 of 1991 – translation 1 (Jorge Resines translator) – 26 pages
- Beitrage Nr 107 of 1991 – translation 2 (typed, incomplete see page numbers) – 4 pages
- Notes on the drawing and photos of the models published in Beitrage Nr. 107 – 12 pages
- Translation of formula of 1920 reported by E. Pfeiffer – 1 page
- Handwritten notes by Hans Mulder of visit to Paul Emberson (Anthrotech) in Oct-1993 – 7 pages
- Strader Machine homepage Dec-1999 by Brian Hulley – 4 pages

DL 2023-03-20

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Introduction:

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How the information was received by the translator, general considerations as to how the work was written. Portions left untranslated and the reason why.

"Joint Resonance of Forces" by Mr Walter Kugler:

Pages N°1/N°2

Origins of the material coming from the Rudolf Steiner Archives, scarcity of same and general explanation on sketches and photographs.

Three Sketches by Rudolf Steiner:

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The three sketches and a brief quotation from "Guardian of the Portal", the Steinerian Mystery-Drama where the Strader-machines appear. Translator's note about these illustrations.

Sketches by Oskar Schmiedel:

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Brief explanation by the man who received Steiner's personal instructions as to how the devices were built and which materials were to be employed.

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Account, by an eyewitness to the first models' building, as to how they were made and which materials were used. Additional smaller devices used jointly with the larger Strader-machine. Photos of the models and sketches both from Mr Kung and from a not-known source.

Chronological References by Rudolf Steiner:

Pages N°22/N°23

Statements by Dr Steiner on the Strader-devices and their relationship to both Keely's machines and to the forces needed for making them and in their operation. It refers to materials published in the German language only.

Bibliography:

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Reference works, both in English and German, for enlarging the reader's personal knowledge about the subject.

Translator's Afterword:

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Explanation of Strader's machines using a British naval anti-ship missile decoy and its relationship to the Metric Theorems. Pros and cons of the whole information translated on the devices.

Introduction

As anybody who has read Trevor James Constable's "The Cosmic Pulse of Life" (either the 1976 or 1990 edition) knows, Strader was a play-character created by Rudolf Steiner for one of his plays and in it he invented machines that were powered directly by the ether (or "Life-force", as Constable indicates using an equivalent term).

This translation results from a work in German that I received, xeroxed, in early February 1992. This work is "Beiträge zur Rudolf Steiner Gesamtausgabe" ("Contribution to total knowledge of Rudolf Steiner's Subjects") and it is a publication appearing periodically, published by Rudolf Steiner Verlag, Haus Duldeck, CH-4143, Dornach, Switzerland (in case you want to write; the editor is Mr Walter Kugler). It is a work wholly written in German.

And I say a periodical publication because I do not know how often it is published, on the cover it says "Heft Nr. 107, Michaeli 1991" meaning "Booklet Number 107, from Michael 1991".

In the bibliography, listed at the end of this work, one reference is given as published in "Johanni 1964" and another at "Michaeli 1964"; and I confess to ignore what it all is. Please, excuse me the ignorance....

I also ignore what the "GA" initials indicate (see the "Chronological References by Rudolf Steiner" at the end of the work), though from the way they are used it seems to me they are related to a nomenclature employed in the classification of Rudolf Steiner's lectures and written works.

Anybody who can clear my ignorance, please write to BSRF explaining the subject. Thanks for your cooperation.

The text in itself does not explain too much about how the machines worked or which was its fundamental principle; the models survived the 1924 fire of the Goetheanum yet, because of generalised carelessness as Mr Hans Kung - one of the model-builders - himself indicates, they are nowadays lost. It is a real shame that something coming straight from Rudolf Steiner's personal instructions (for he participated personally guiding the builders) is now "gone with the wind" (or should I say, "gone with the wind!").

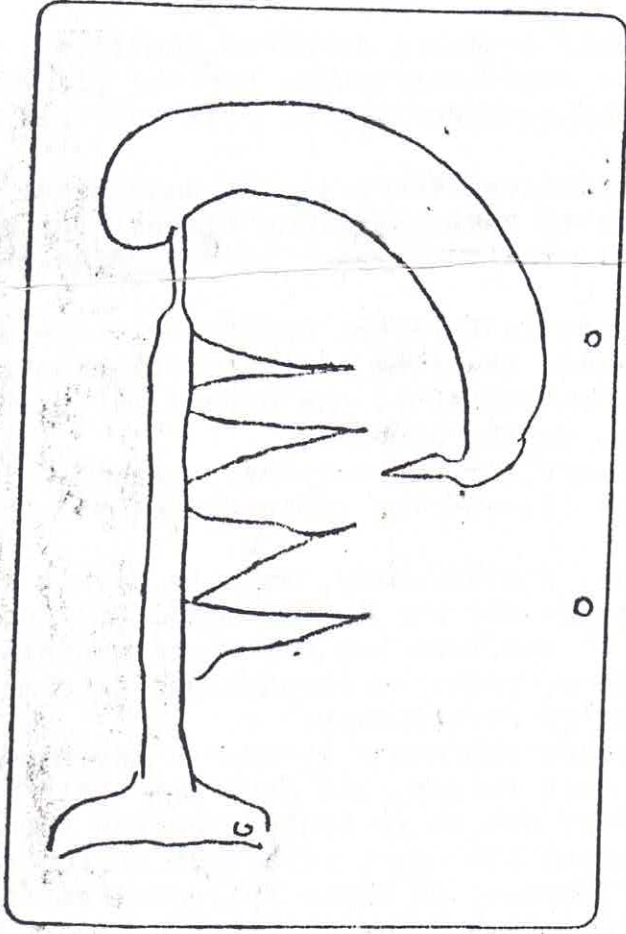
In the translation from German to English, I have translated faithfully the meaning of the text abbreviating the excessive wordage of the Teutons' language. I have respected the original pagination, placing first the corresponding written text and later the respective illustrations.

For a better clarity - and because I replaced some German writing by typewritten English - the drawings were xeroxed in enlarged format and the order of the original source respected. Whenever the drawings did not fit into a single page I arranged them in sequential pages and respecting the top-to-bottom order. As the handwriting accompanying some drawings was not clear enough to me, I preferred not to alter it (or excise it altogether) by typing "unreadable" over it, but to leave said text unaltered in the hope that someone more learned (and who knows how to decipher better than I do!) will be kind enough to fill in the gaps produced by my ignorance.

My personal conclusions, and the data leading me into them, are included in an "Afternote" placed behind it all. Happy reading!

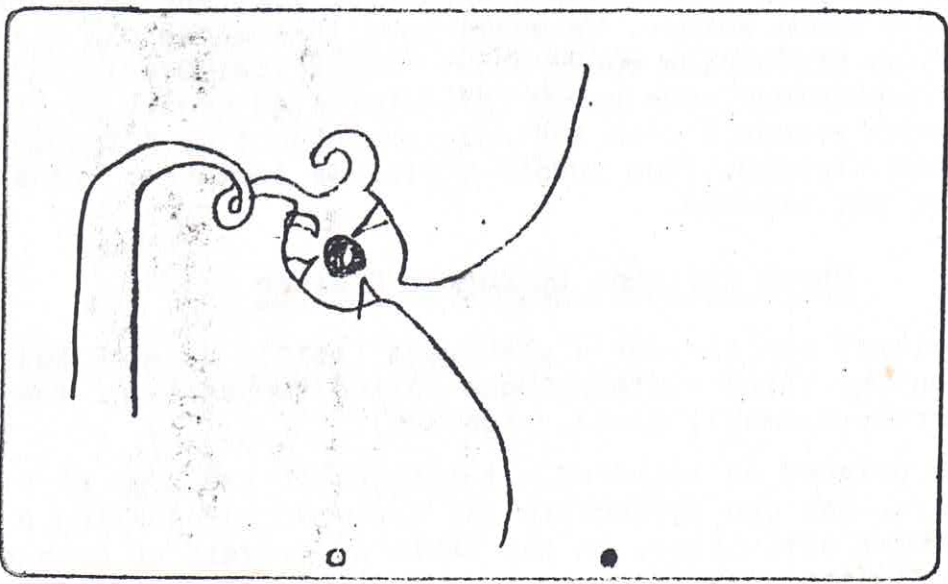
JOINT RESONANCE OF FORCES

by Mr Walter Kugler



First Sketch

Second Sketch



We always receive at the (Rudolf Steiner) Archives questions, specially on schematics and technical details - sometimes asking for the place in the Steinerian Mystery-Dramas and published Lectures and/or written works - about the "Strader Machine".

And we always answer: at the Archives there is circumstantial material, rather sparse. We have three sketches by Rudolf Steiner himself for every "model to be assembled" that should be in the fourth act to "Guardian of the Portal", his third Mystery-Drama (GA-14).

On the other side, no longer are in physical existence these models though, as Hans Küng reports, "they survived the fire of the Goetheanum". No matter which were this device's workings - and so shows the materials' examination - there are no more complementary data at the Archives.

And Rudolf Steiner himself limits his indications, in the fourth act to "Guardian of the Portal", to: "Over (Strader's) table there are models of mechanisms",

It would be better if each one, individually, were to have a complete knowledge of the subject because here we are not in the least dealing with an "Apparatus" in the strict meaning of the term but rather of "models of the mechanisms"; which, on the first place, exist as foundations of something that is in need of deeper and more extensive development.

Should, externally, these devices represent Strader's advanced ideas?. "The technology I discovered you must forget, and grant me rest" says Strader in the fourth act. And in the first act it is stated: "Happen then, one research after the other, until achieving the joint resonance of forces upon my working-table discovered, which (forces) in their full manifestation will bring freedom through (the most pure) technique, so that in their cores they themselves may be developed".

We also find at the Archives sketches from Oskar Schmiedel to the "very provisional" models of Strader's work-room, made according to instructions from Rudolf Steiner himself.

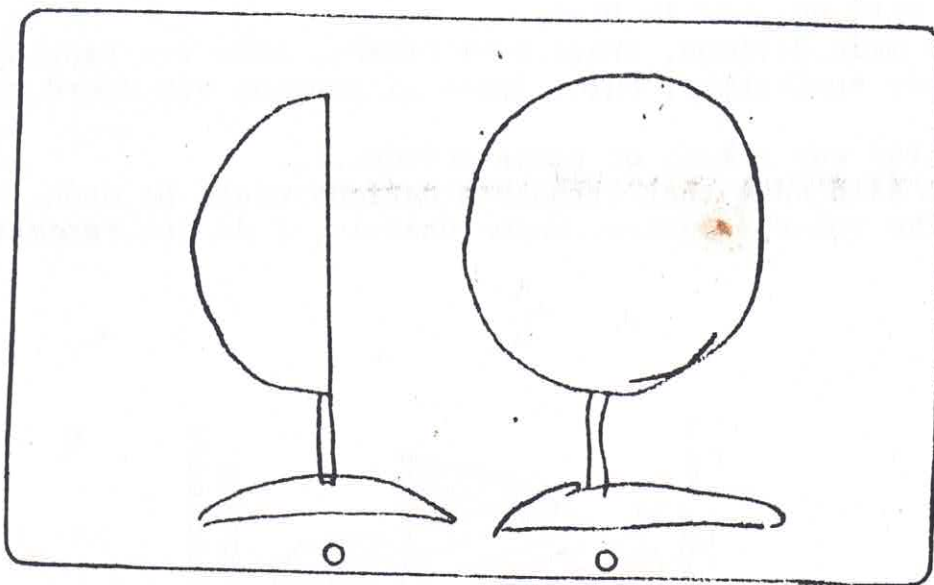
As per contrast to the scarce information by Steiner in the Mystery-Drama, says Schmiedel in his report that Steiner was very strict and talkative in the models' construction. What we make out from his report is that there were very little documentation on the models themselves.

Together with Schmiedel's descriptions come photographs of sketches made by Hans Küng together with reconstructed models, by Engineer Zoller, of "Strader Devices". Another group of photographed sketches, also included here, have not - unfortunately - a known author. We would love if someone can give us info. This "overflight" on Steinerian works about "Mechanical Occultism", Keely's Motor and future's technology, can serve the interested reader as "foundation" to deepen a personal research into the complex subject of "Strader's problem". This term, as taken straight from Rudolf Steiner's lectures, means that the final word is not yet uttered.

Three Sketches by Rudolf Steiner

"Models of Mechanisms" for Strader's work-room (1912); data to build the table for the 4th act on the third Mystery-Drama called "Guardian of the Portal" (as taken from "4 Mystery-Dramas", GA-14, page 320):

"A room basically painted in rosy-red. It belongs to the home of Strader and his wife, Theodora. One can appreciate the devices that sharing a common space develop different activities. On the table are models of mechanisms, all of them based upon mystical principles".



Third Sketch (above)

NFT: As the original sketches, in the xeroxes I received, could not be copied to be included straight with the typewritten translation, I decided to make a copy of each with translucent paper passing very softly a pencil over it to later remark the illustration with a fine-pointed pen. Proportions in the three sketches are 1:1 and all details - no matter how small - have been fully respected.

Sketches by Oskar Schmiedel (1887-1959)

As taken from his "Erinnerungen an die Proben den Mysterienspielen in München, 1910 bis 1913" (Memories on the Essays of the Munich Mystery-Dramas, 1910 to 1913), published at Stuttgart, 1979, pp. 101 and ff.:

"Rudolf Steiner gave us with detail the models of devices for Strader's work-room in "Guardian of the Portal", including even the different metals (for said devices). We did the first models in 1912 at my first Munich laboratory - building them too fast, in a provisional way. The next Winter - already with materials (in our possession) - they were ready, faithfully made according to model (and instructions) from Rudolf Steiner. They were used in 1913 in (the (theatrical representation of) "Guardian of the Portal" and remained in the "Goetheanum (afterwards), being bypassed by the fire because they were in another part (that was not burned).

"We were impressed by the detail in Steiner's instructions; a piece of artifact there had to represent either a metal or another stuff that (still) had not been discovered (by science). It is too difficult to say, for sure, which visual constituents of the devices were actually for real. I think the central apparatus was a "Condenser" (NFT: In the German original it means a device for condensing and not the well-known electronic appliance) that collected or gathered flowing cosmic rays to produce (useful) work, maybe (the "Condenser" was) a transformer of the same (cosmic rays) (NFT: Here Mr Schmiedel speaks as if he were dealing with the usual electrical-transformer).

"Several metals were used: Antimonium, Copper, Nickel and Uranium's Pechblende;

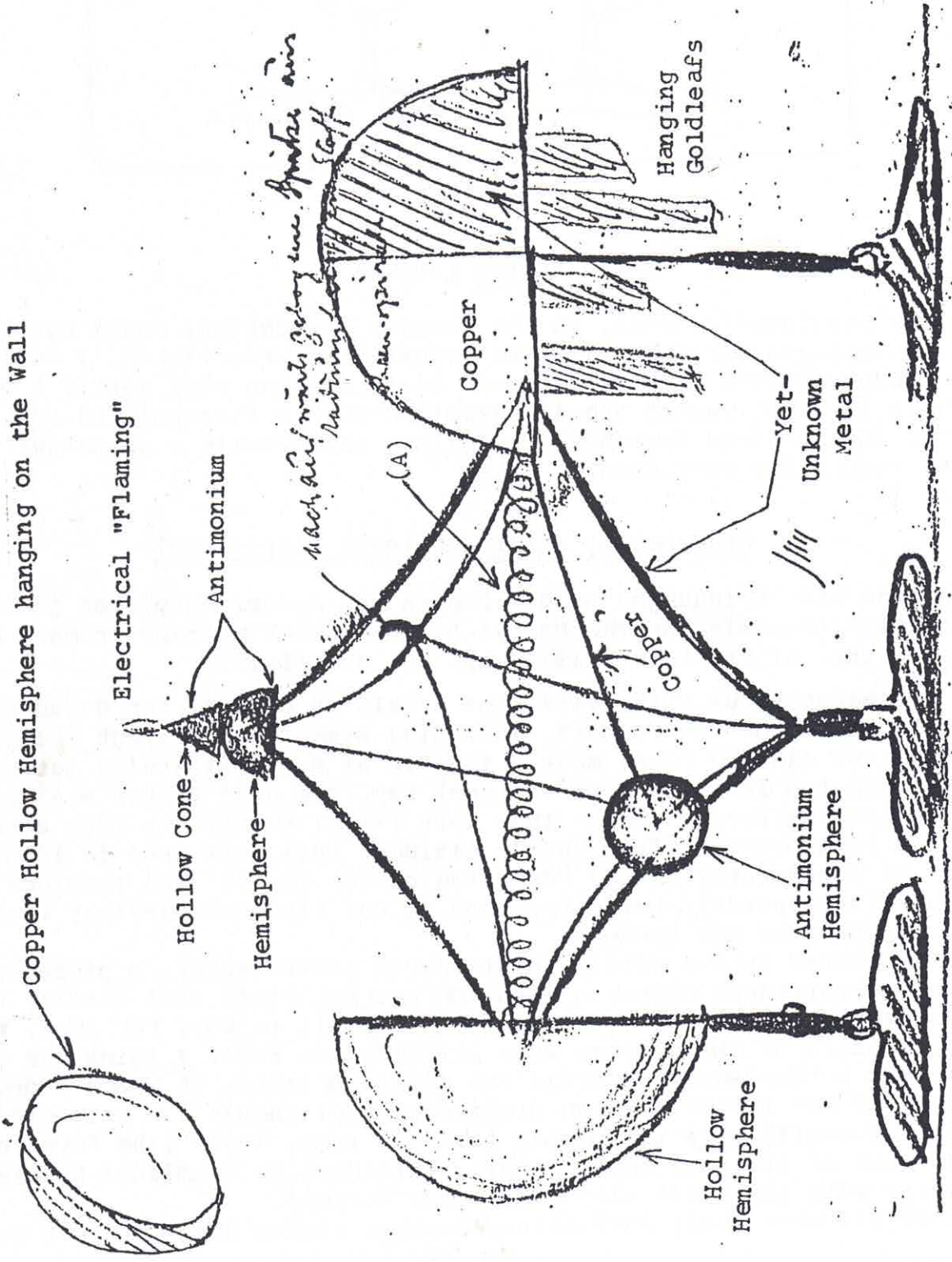
"there was also a "surrogate" for still-undiscovered materials, as already mentioned, which were colored in blue.

"Besides of the main devices, there were others. Also was hanging from the wall a concave Copper hemisphere, which internal portion was aimed towards the main devices.

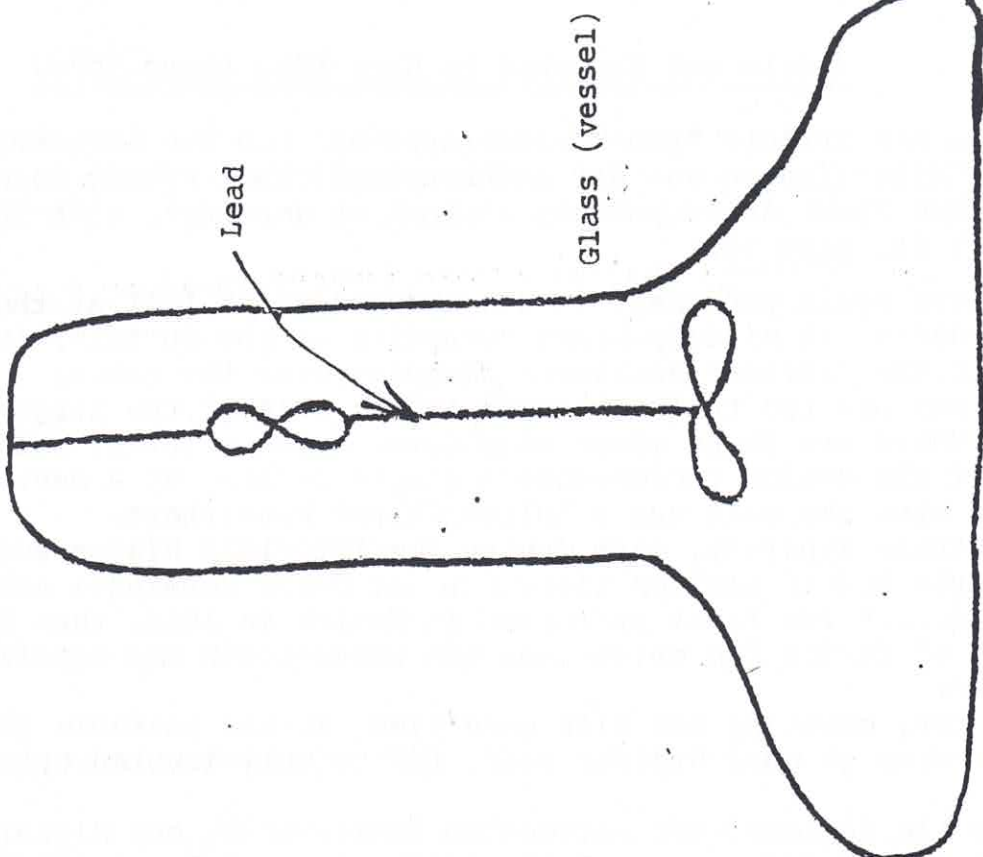
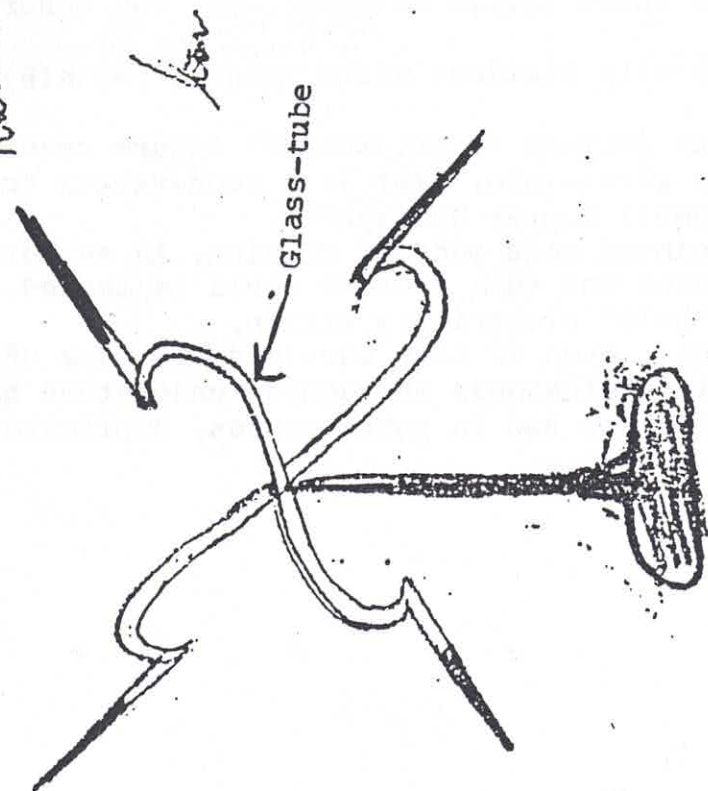
"Another apparatus was a kind of table-device.....

"Also (Steiner) said once that Strader's devices would be made. He said it was not to be in the too-far future. Unfortunately, I do not remember anything else".

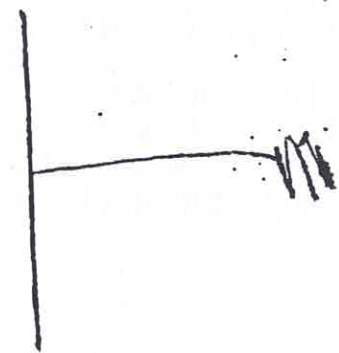
(A): Spiralling Glass-tube (see below)



Radium battery! Radium
Spikes Spices



Leads
one has glass



KuHN

As taken from his article "Vom Strader-Apparat" (On the Strader-device) which appeared in "Mitteilungen aus der anthroposophischen Arbeit in Deutschland" (Communications about Anthroposophical Work at Germany), 25th Jg., Booklet Number 4, Number 98, page 291:

"Because it was again performed in the summerdays of 1971 at the Goetheanum Rudolf Steiner's 4th Mystery-Drama "Guardian of the Portal", it was once again talked about the "Strader machines" standing over the table.

"Actually, they are two tables because by the side of the larger device (over one table) there are three minor ones (over another table) rather to a side.

"There was at the Munich performance a single device, at a certain distance, for mounted upon the wall was a hollow Copper Hemisphere.

"I remember these apparati, made during the 1912/1913 Winter according to instructions from Rudolf Steiner himself by Dr Oskar Schmiedel and his workshop.

"As "Guardian...." was first performed in Munich in 1912, then it was ready only one kind of device for which Imme von Eckardstein had received instructions from Steiner.

"Through Winter, counting now with more time, it was possible to make accurate models according to what Steiner said, for he only trusted Oskar Schmiedel to build them.

"We find (at the devices) two Antimonium hemispheres, one Nickel (hemisphere) and four hemispheres where one half (1/4th of a total sphere) was Copper and

the other of a still-unknown metal. Under this double-hemisphere ("Doppelschale" in the original) were hanging "vaporously" gold-leaves (1/1000th of a millimeter in thickness). On the fourth vertex of a lead-cross (NFT: The major Strader device, proper, is - roughly - an Octahedron, that is two square-based pyramids joined by the base; hence the equatorial plane is a square) was to be

based a "sting" made with Uranium's Pechblende. Joining places for the six vertices (in this Octahedron) had to be partly with Copper and partly with Tin

From one hemisphere towards the opposite, run a spiralling glass-tube. Even more "full of secrecy" were the three little devices (upon the other table),

from which:

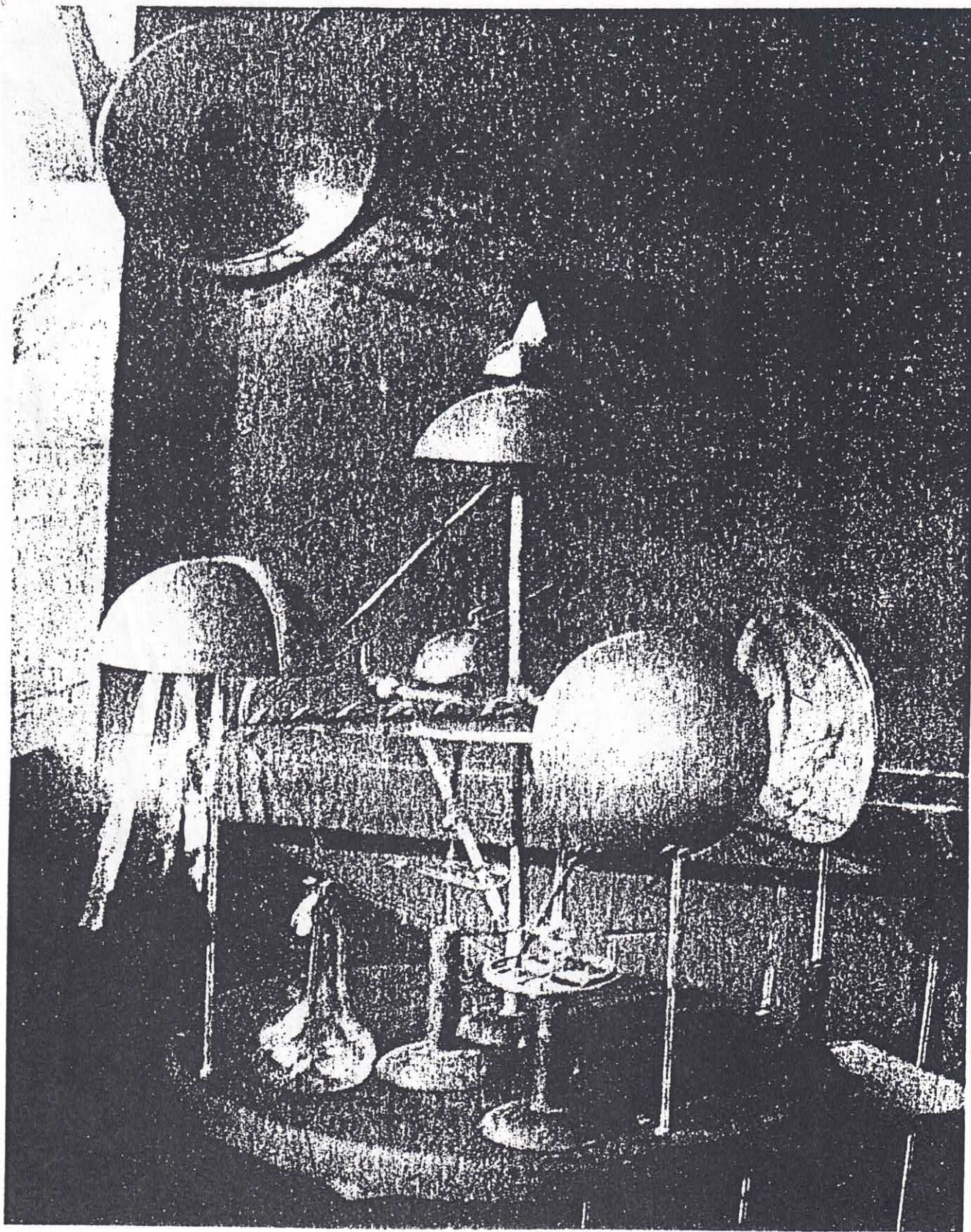
"1°) The first was a glass-vessel with Platinum wires hanging (within) or cast in a die.

"2°) The second was a "lemniscata" (NFT: An "eight-shaped" figure resembling the ("Möbius strip")) made with a glass-tube, over it a wood-vertex "crowning" it, over this vertex was a small Copper Hemisphere.

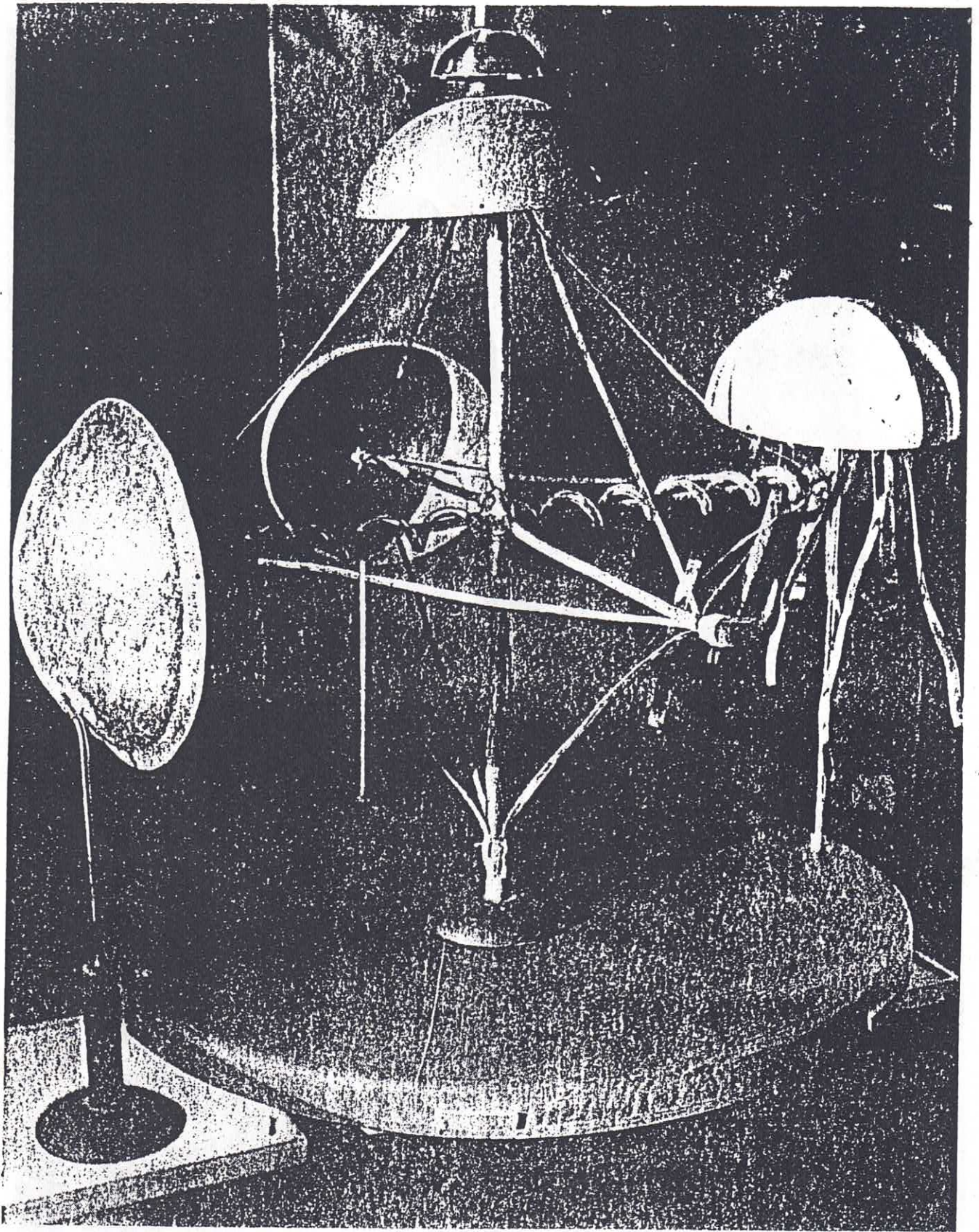
"3°) The third device had four pointed ends made of Uranium, in an horizontal plane. The shape of this device was such that it could be turned.

"They (all the devices) had to "hold" electricity within.

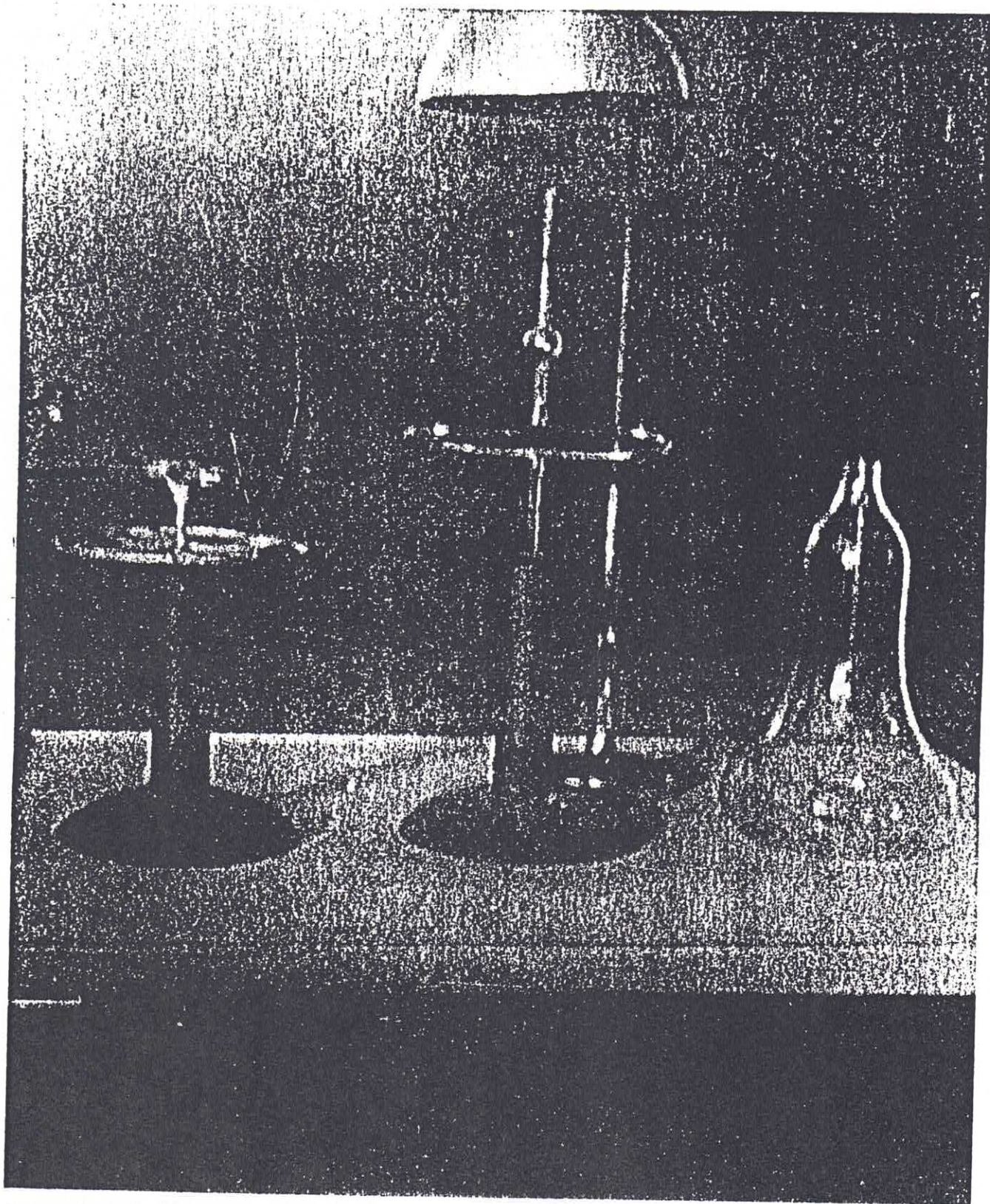
"Original models are nowadays lost, even if they survived the fire of the Goetheanum. It was a time of great carelessness and nobody understood how important they (the devices) were. Today we see in performances, duplicate copies."



Model of the "Strader device" and the three secondary apparati, made by Hans Kühn according to the original model built for the original performance to "Guardian of the Portal" in Munich (1913) as per instructions given by Rudolf Steiner himself.

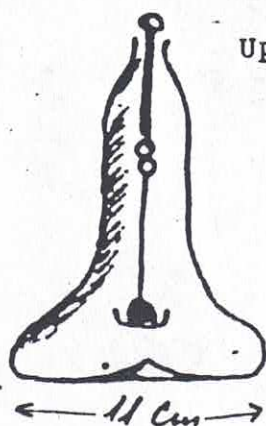


The larger "Strader device" standing alone.





The three "secondary" apparati by Strader.

Glass-Flask, 18 cms. high

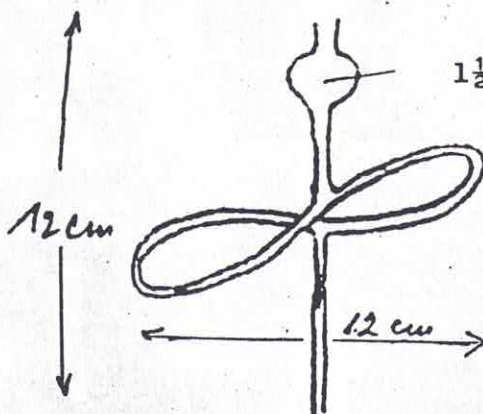
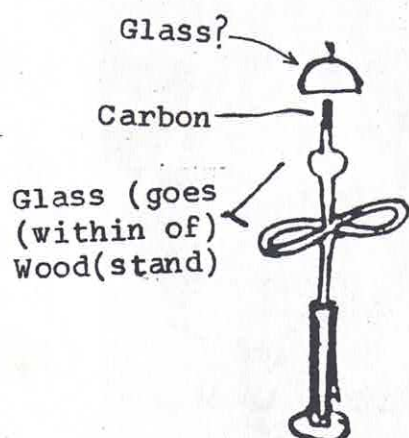


Upper-opening $1\frac{1}{2}$ cm (diameter)

Hanging (modelled) piece of Lead

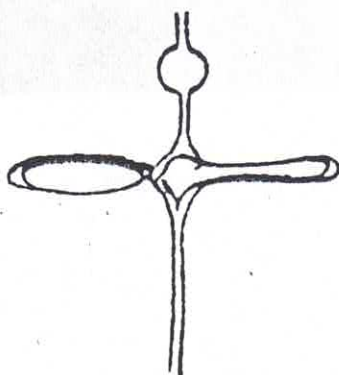
This:  or: 

Glass-tube 12 cms. high



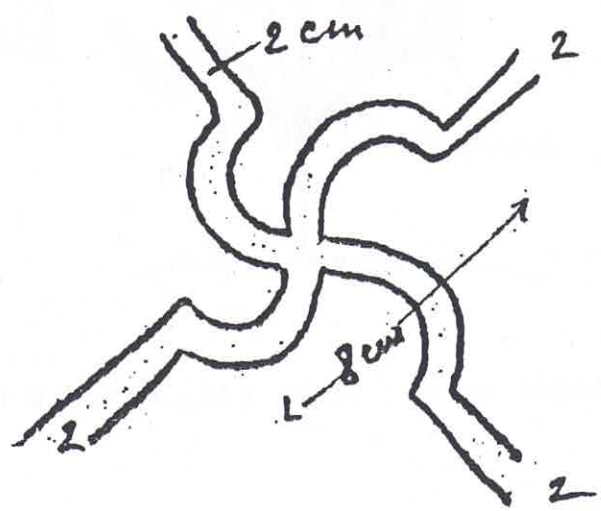
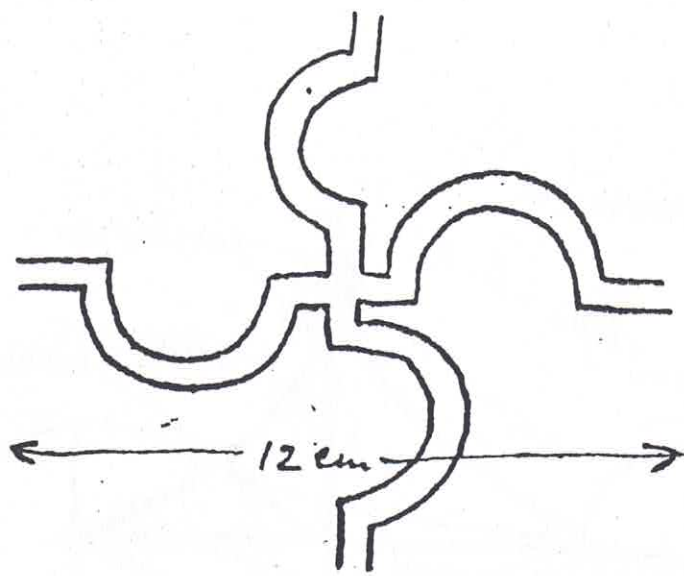
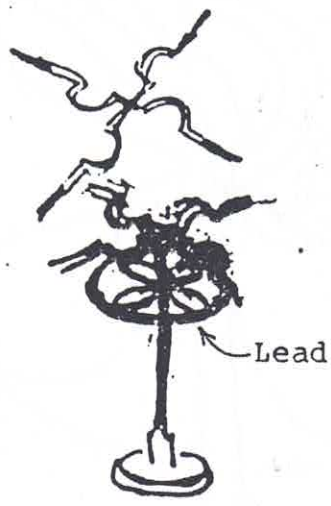
$1\frac{1}{2}$ cm (diameter)

Cross-section of about $\frac{1}{2}$ cm.



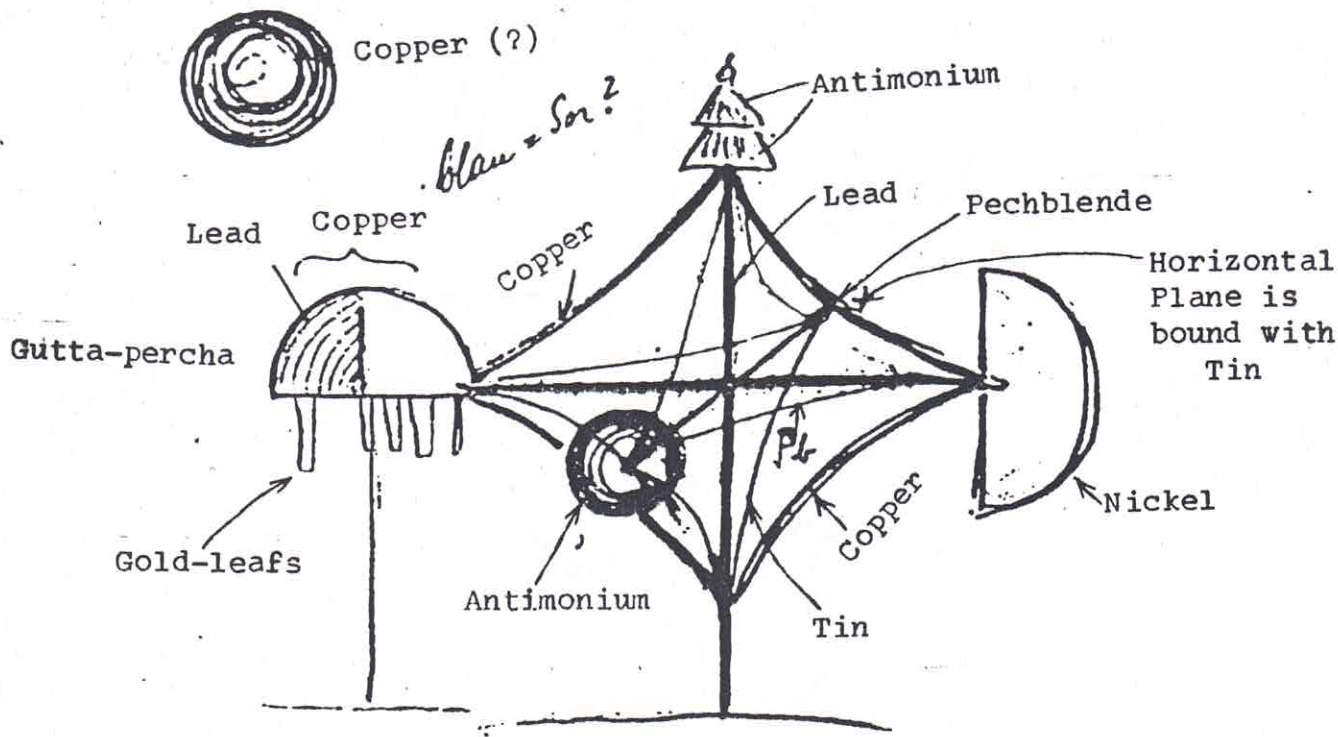
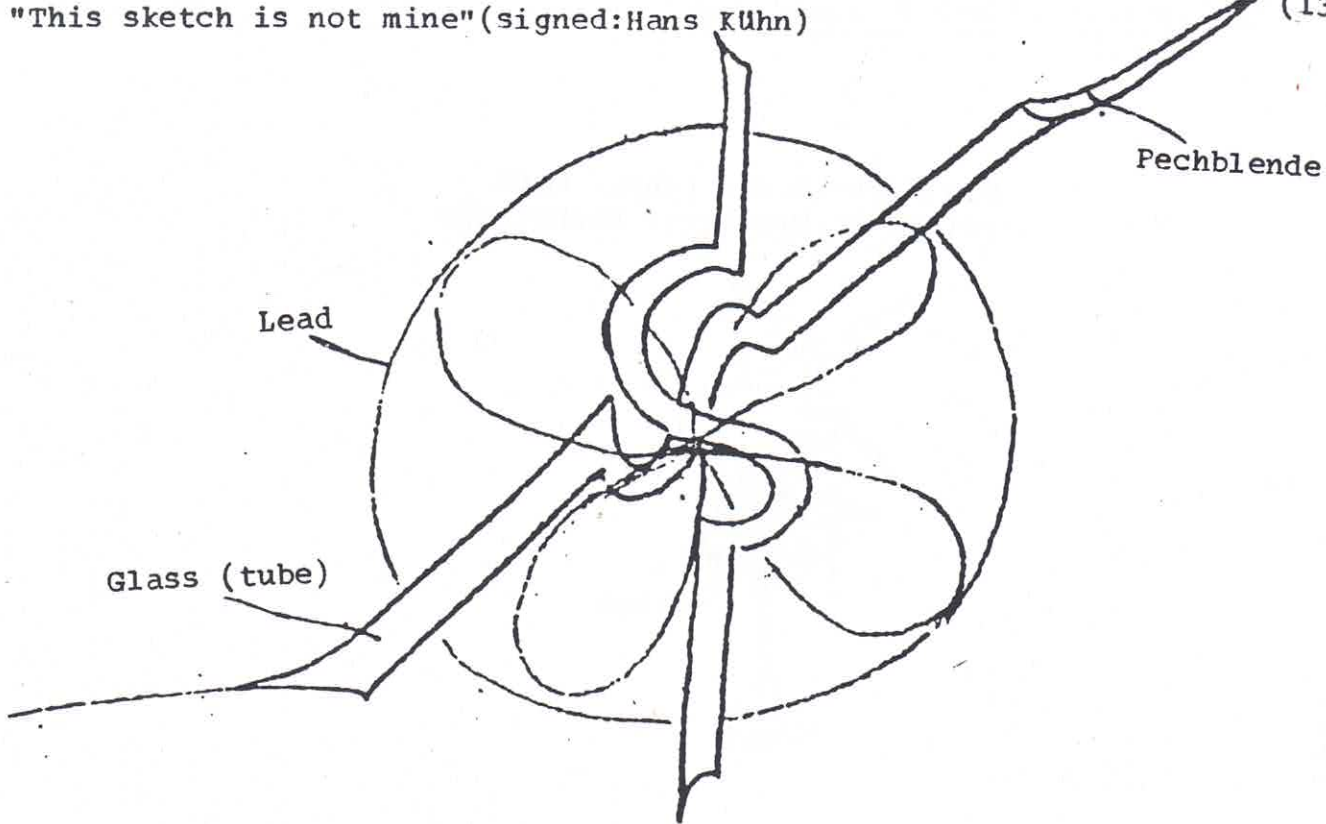
NFT: This drawing was without any annotation in the original German.

Disorder: Glass (tube) with points of Uranium's Pechblende

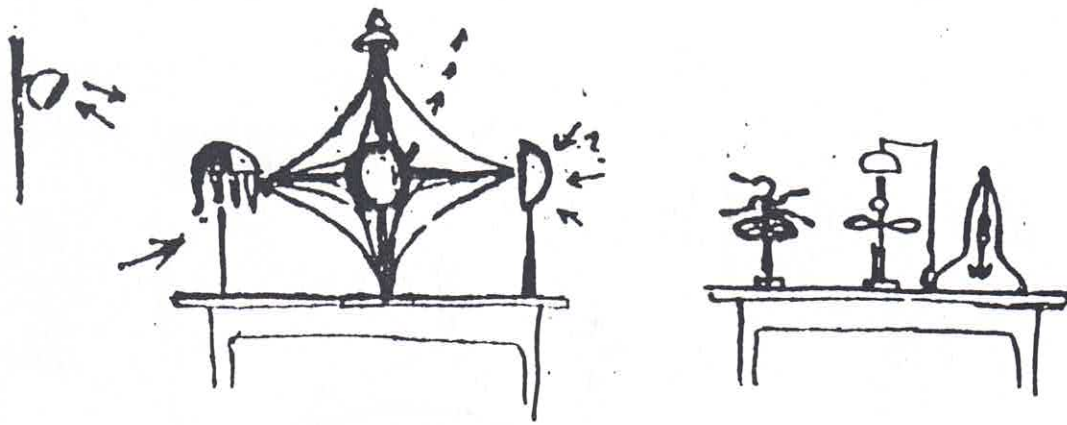


"This sketch is not mine" (signed: Hans Kühn)

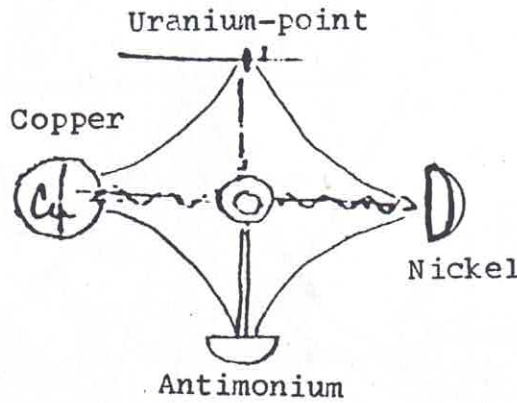
(13)



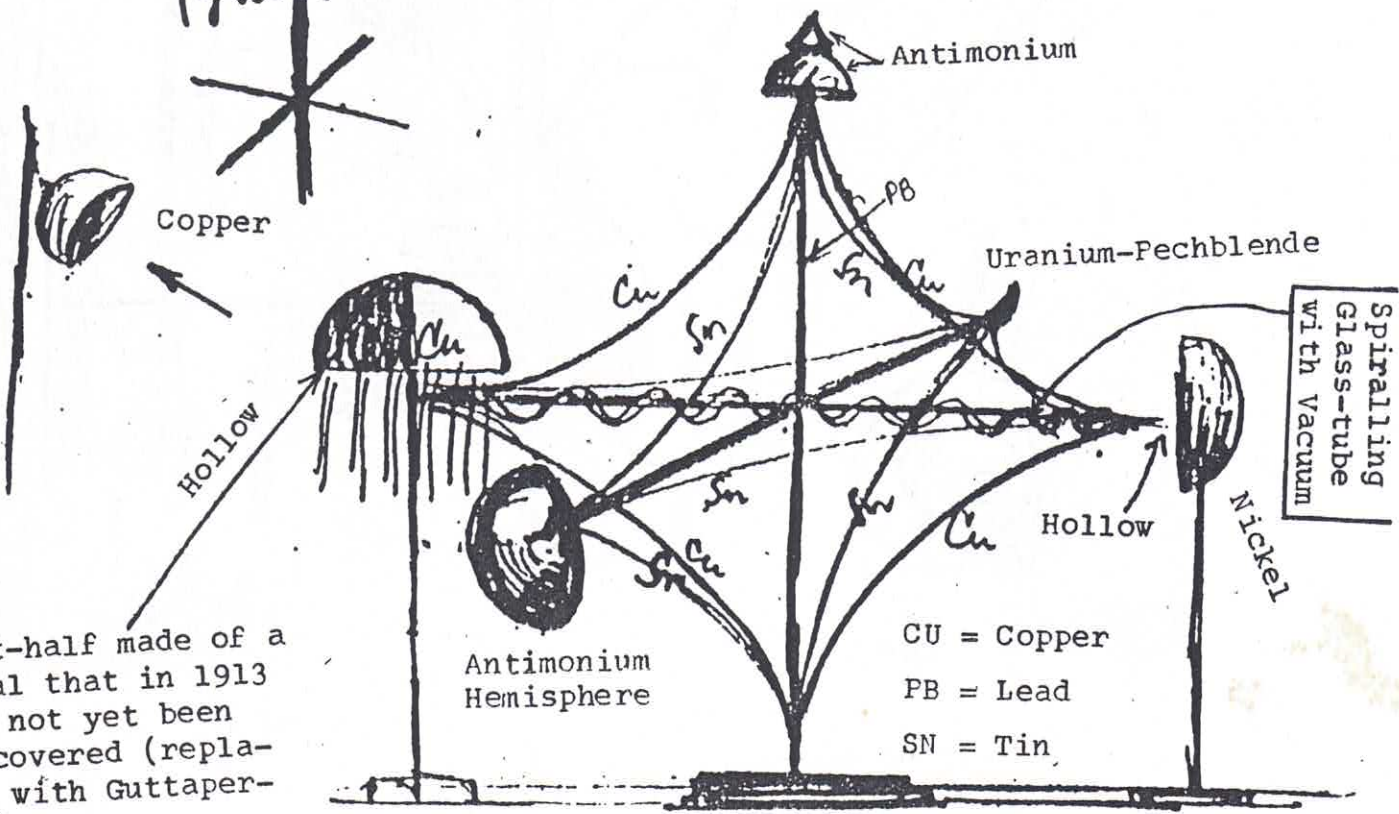
"This sketch is not mine" (signed: Hans Kühn)



NFT: The illustration at right is a view from above

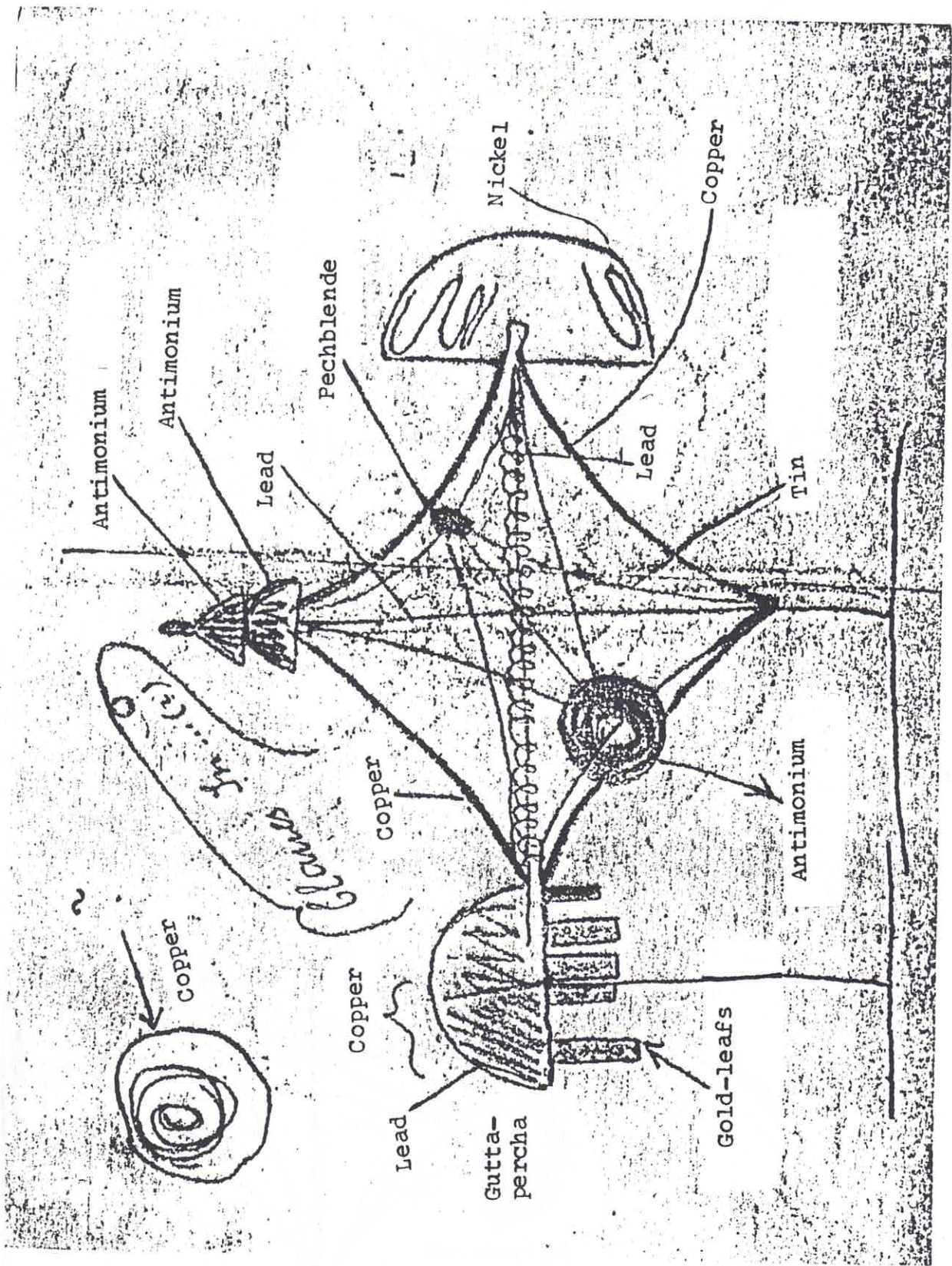


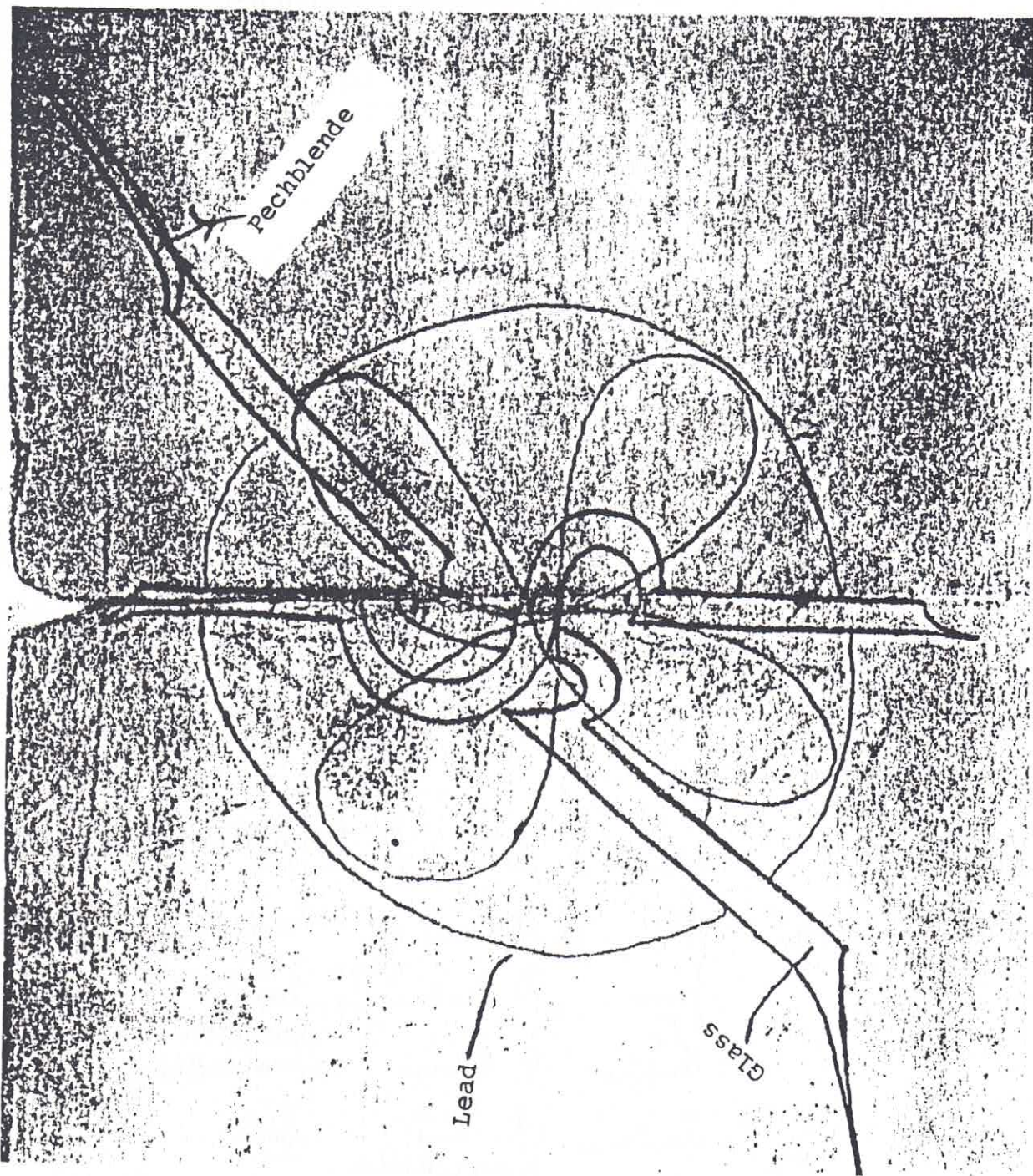
Pyli-fürnis



Left-half made of a metal that in 1913 had not yet been discovered (replaced with Guttapercha)

"Model of the Strader-Device, from sketches of 'the original in August 1913, Munich" (Hans Kühn, Nov. '48)

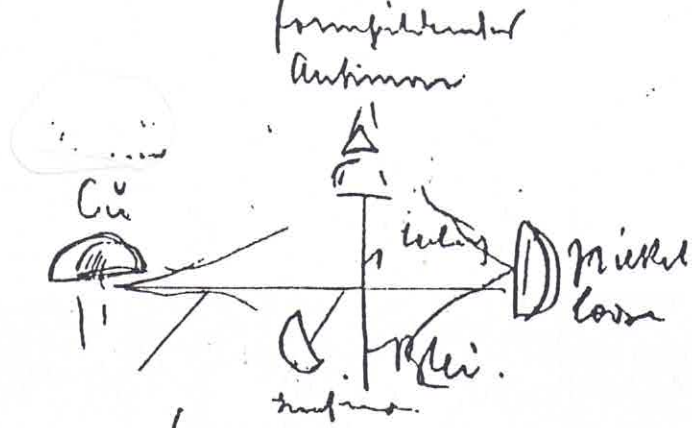




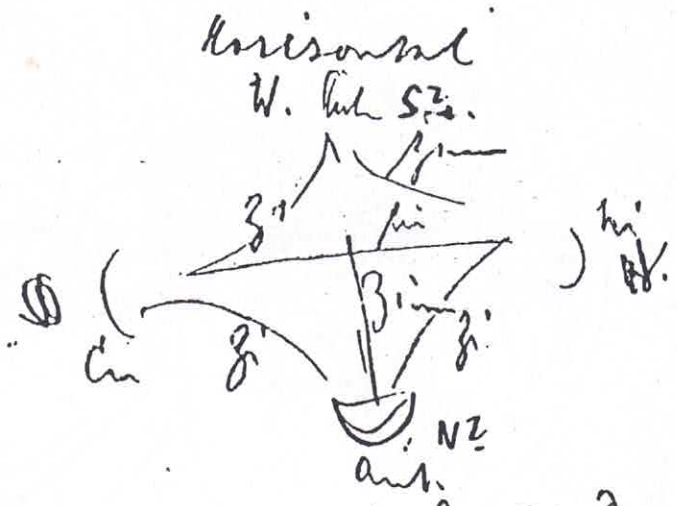
Pechblende

Lead

Glass



urce hier
 Zimmerlicht
 aufgeföhrt.



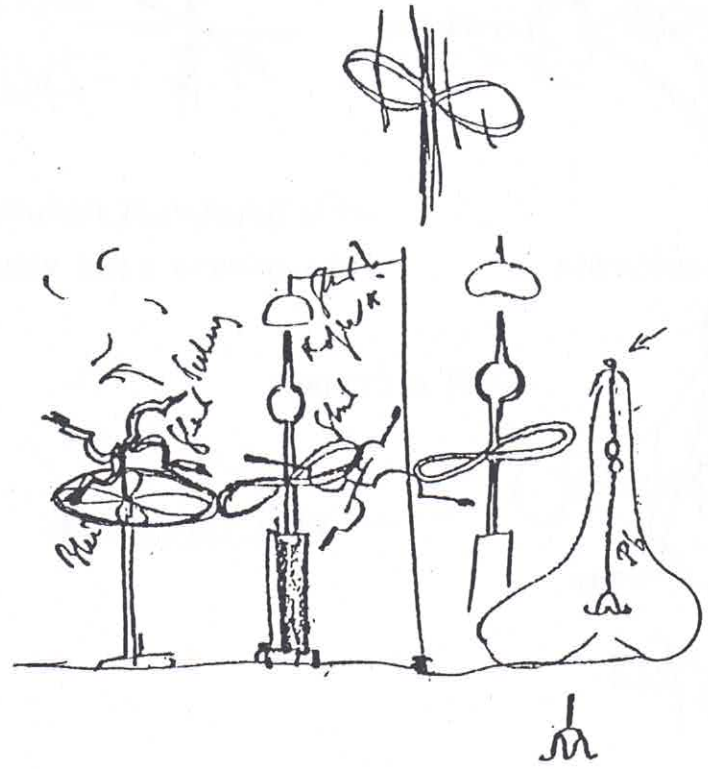
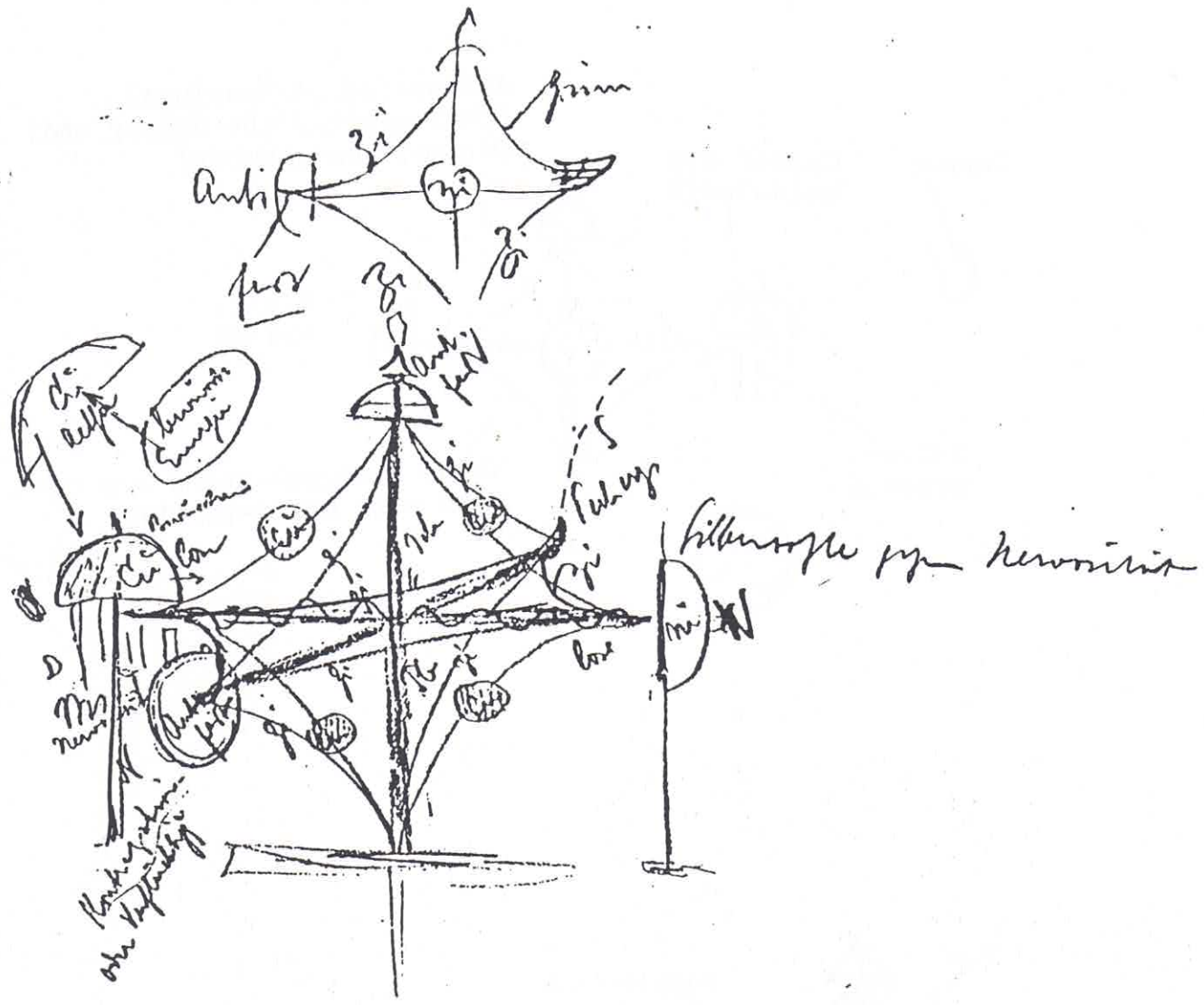
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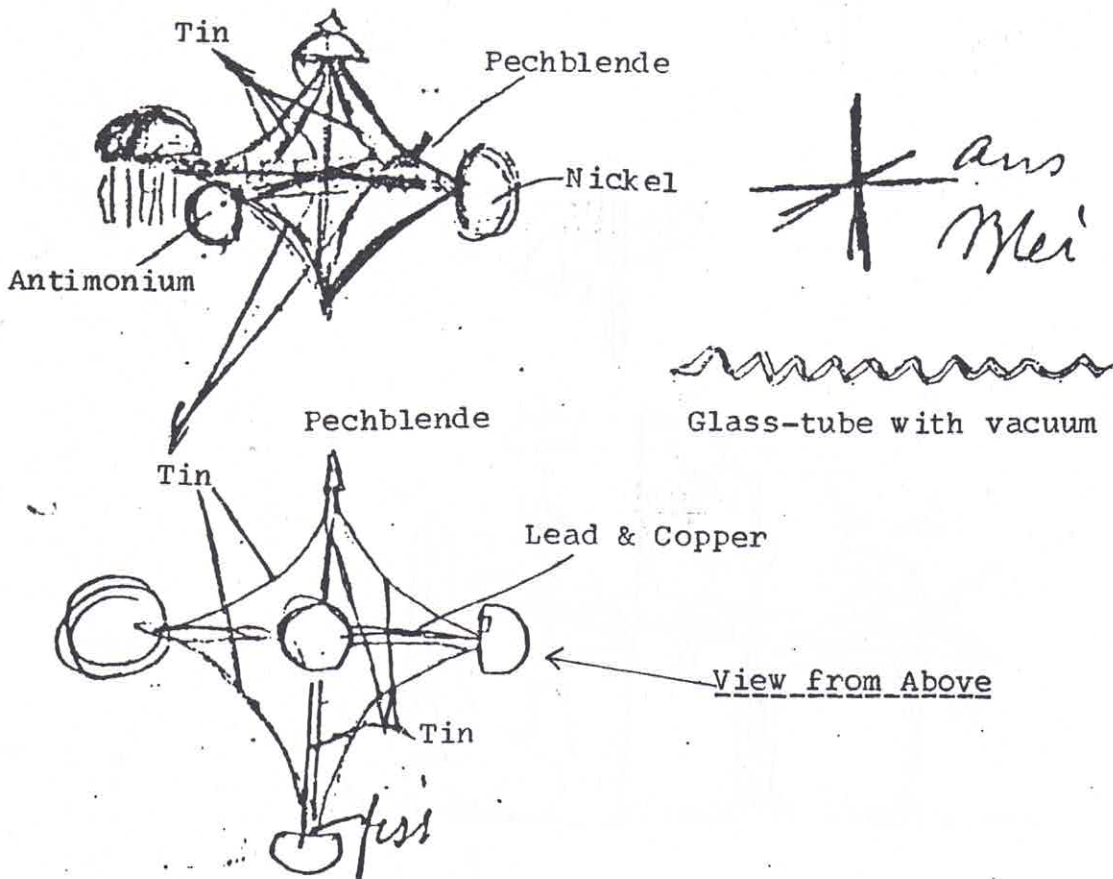
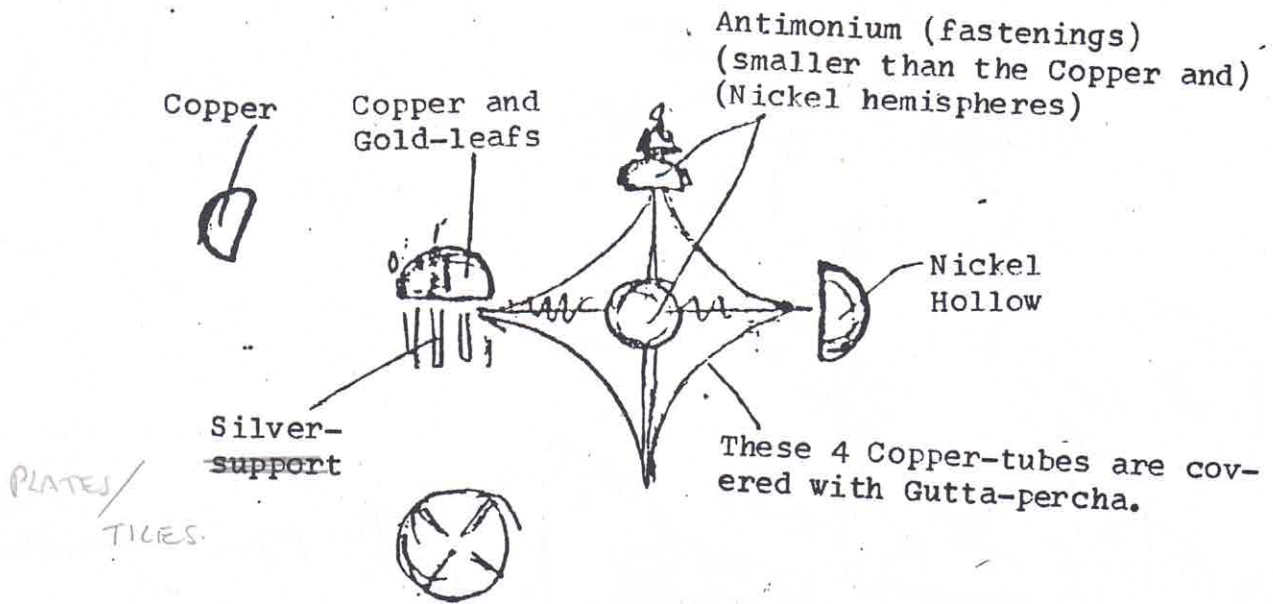
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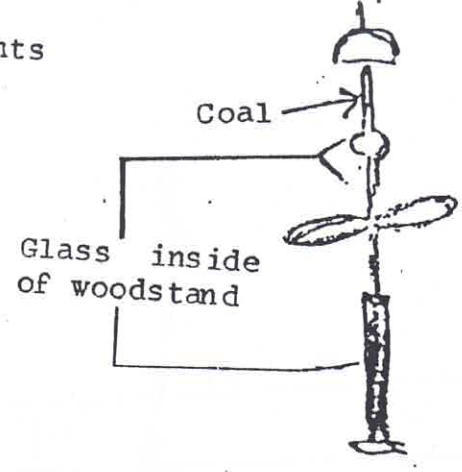
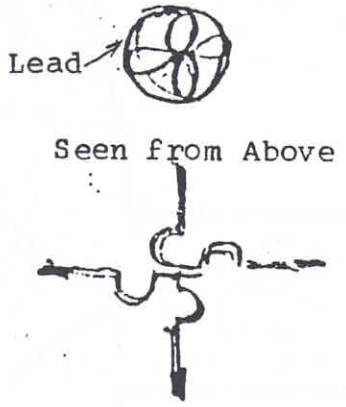
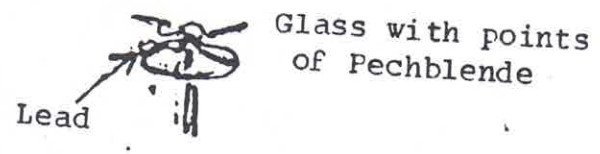
Antimon \rightarrow Selen \rightarrow Arsen
 Zinn \rightarrow 4 Kadaver \rightarrow Flüssigkeit
 Kupfer \rightarrow 1 Korn \rightarrow Pyrit
 Antimon \rightarrow an Venen \rightarrow Blut
 Nickel \rightarrow Abzug \rightarrow Selen

Asphalt
 r. 24

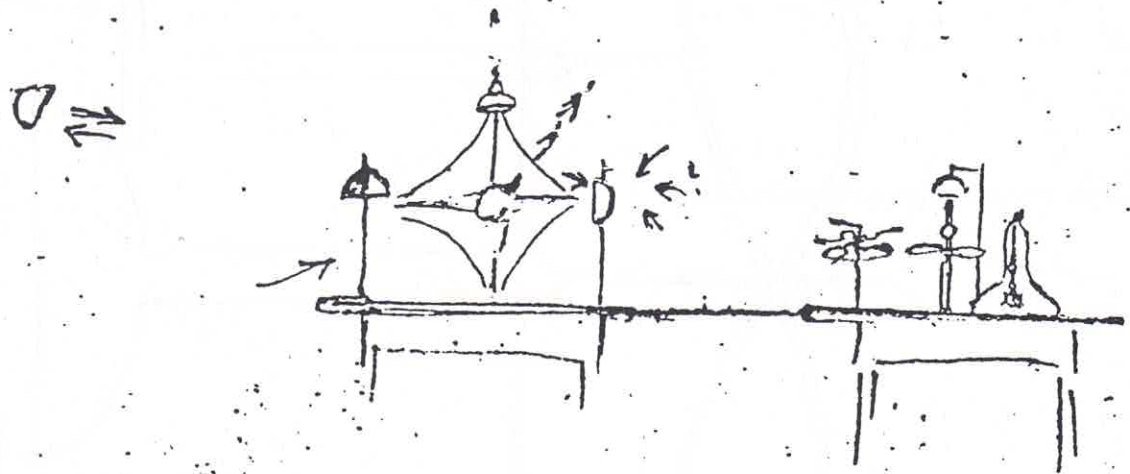
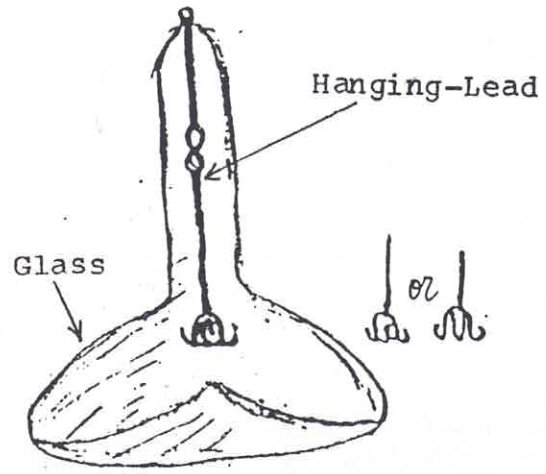
Antimon
 Nickel



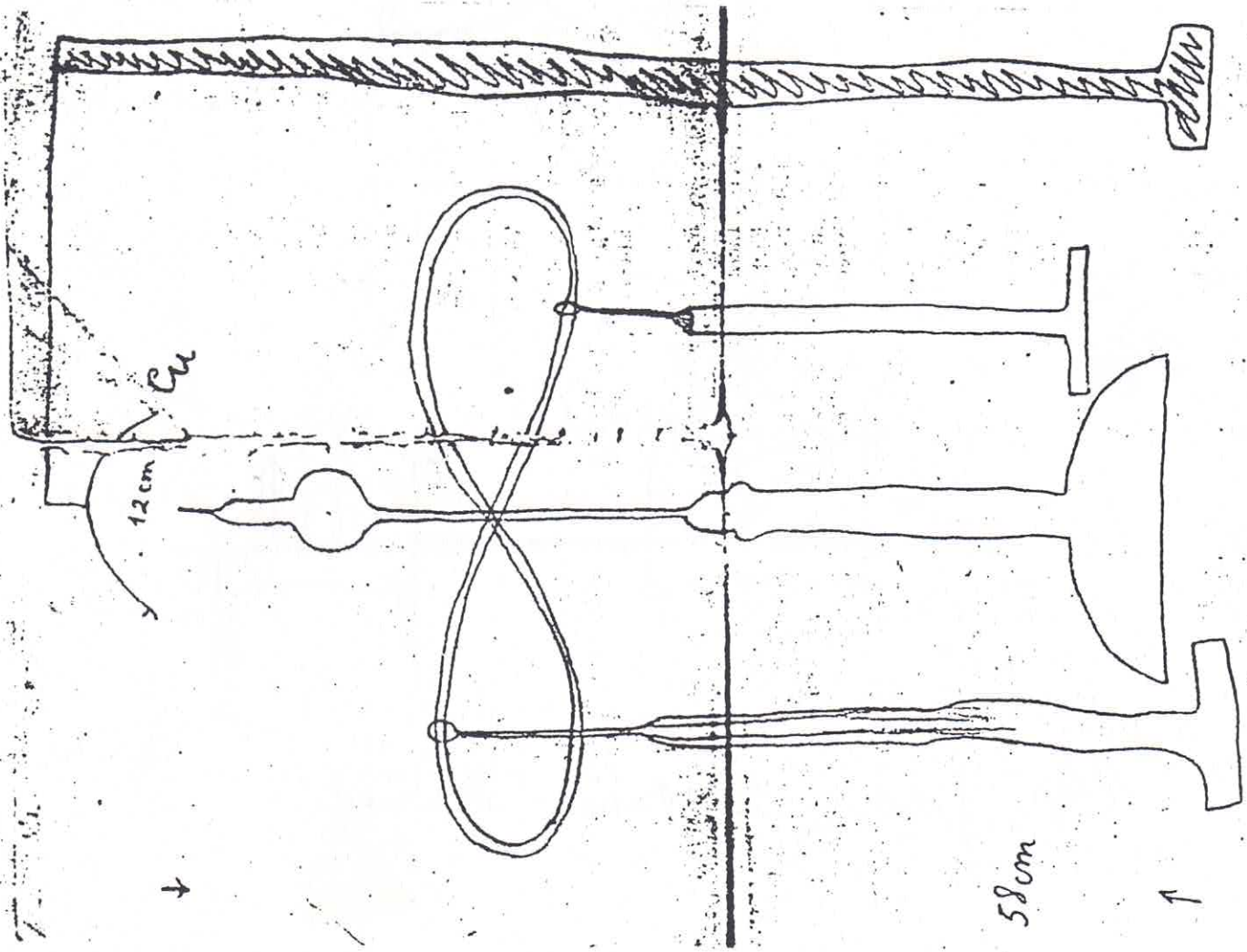
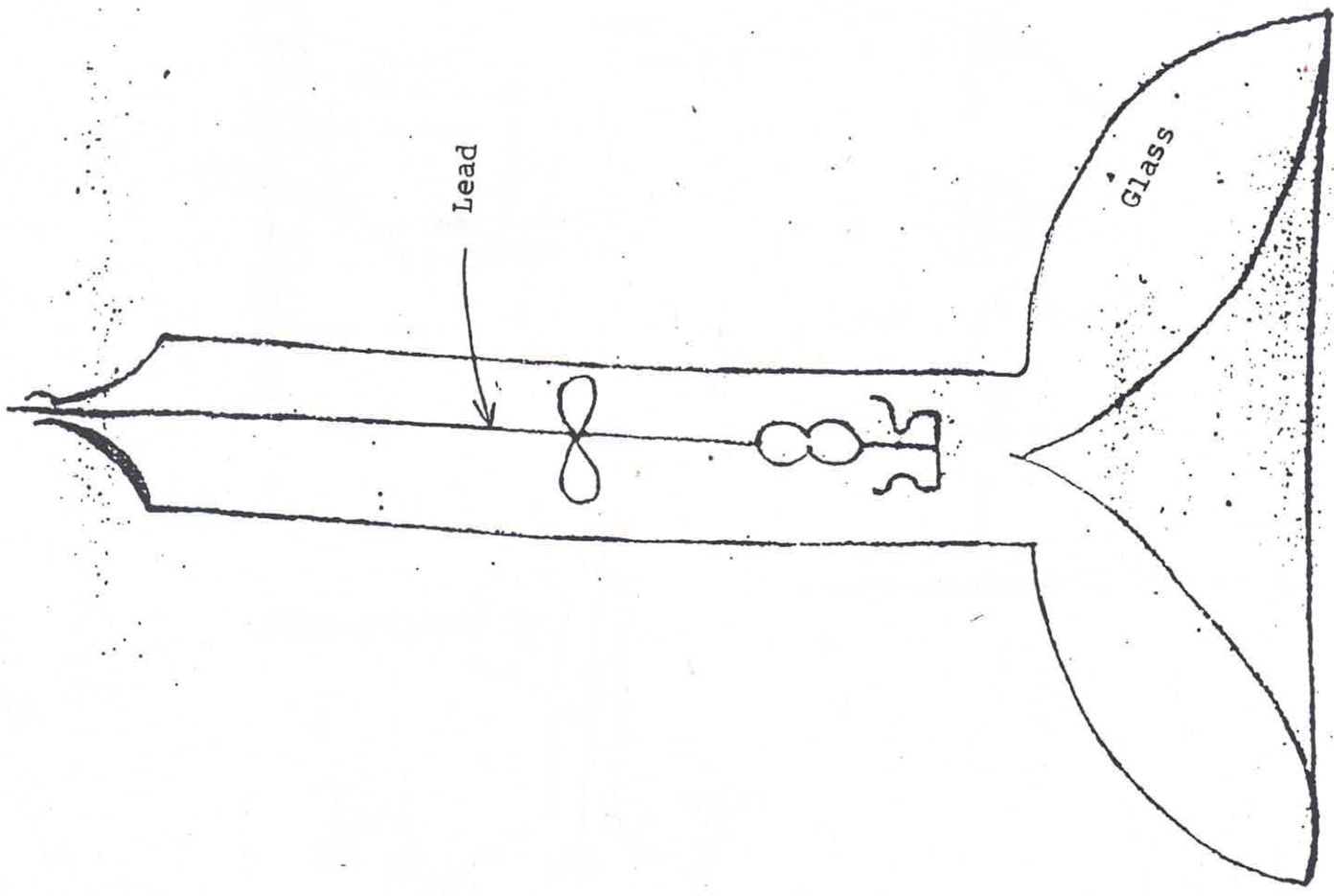




Glass with Pechblende-points



All glass, Muscovit - Karant.



Chronological References by Rudolf Steiner

NFT: In the course of his lectures and writings, Rudolf Steiner briefly addressed the subject of the "Strader Machines" or "Mechanical Occultism", as it is called sometimes by Anthroposophists. He did not refer straight to add more data into the subject leading the technically-inclined followers to building a working-machine, but in a "round-about manner" gave hints as to the basics. The following chart is divided into four sections, all of them almost self-explained save for "GA" which, as I have stated, is in my opinion a kind of nomenclature by the Anthroposophists. Whenever you see the symbol "+" attached by the side of the page-number, it means the subject is also talked about in pages following the one indicated.

"Mechanical Occultism", Keely's Motor and Future's Technology
in public works by Dr Rudolf Steiner:

<u>Date</u>	<u>Subject</u>	<u>GA</u>	<u>Page</u>
Dec. 16, 1904 <i>NOT TRANSLATED.</i>	The physical atom is condensed electricity. Human thought and electricity. Further researches are necessary in Industry and building.	93	112+
Dec. 23, 1904 ✓ <i>SECRET BROTHERHOODS</i>	Relationship between Atom and Machine. Through the change of atom's link with the spirit and the mineral world.	93	118+
Mar. 30, 1905 ✓	Tolstoy - Keely <i>NOT TRANSLATED</i>	53	295
Jan. 02, 1905	Keely's motor; "cross-fertilization" of Mechanism and Moral. <i>PAPERWORK. 259. N.T.</i>	93	286
Feb. 12, 1905 <i>NOT TRANSLATED.</i>	Keely's motor; metamorphosis of a mechanical mechanism into a moral one.	97	40+
Oct. 01, 1911 ✓ <i>COPY IN FILE</i> <i>ETHERISATION OF BLOOD</i>	Light, electricity, chemical force, magnetism, Third Force. Answer to a question in Lecture: "Devachan, Chemism, Magnetism, Electricity; also a "still faraway force"; Moral".	130	95+ 102+
August 1912 ✓	"Guardian of the Portal", Mystery-Drama. Strader and his device. <i>SCENE I.</i>	14	278+ 320+ <i>P. 59</i>
Jun. 20, 1916 ✓ <i>TOWARDS IMAGINARIUM</i>	Keely as opposite ("antipode") of Tolstoy. Keely's Motor: "It was an Ideal, God be praised, for otherwise it would have been used in (World) War (I), and this Ideal by "Keely would have worked in full!".	169	57+ <i>P. 59</i>
Oct. 02, 1916 <i>THE TEMPLARS</i> <i>2156.</i>	On the "fastening" of electrical and magnetic forces in Man, taking them from the Cosmos. A reflection on historical development from Lemurian times up to centuries XVIII and XIX.	171	215+

<u>Date</u>	<u>Subject</u>	<u>GA</u>	<u>Page</u>
Nov. 12, 1916 ✓ KAMA OF VOCATION IX.	Men and machines. In the "future no manufacturing plant will have (human) workers, but will have directors of that type".	172	91+ P. 86
Nov. 26, 1916 ✓ " IX.	Modern technology and demonic magic. Electricity.	172	194+
Dec. 18, 1916 ✓ LECTURE TRANSLATED LECTURE 7 KAMA OF UNTRUTHFULNESS	Transduction of vibrations ("Schwingungen", (also meaning "ondulations", in the original German) of Man and Machine's etherical bodies.	173	215 P. 163
Nov. 15, 1917 ✓ GEOGRAPHICAL MEDICINE.	Nervous system and electrical force. Electrical flows in the human being and their Ahrimanic nature.	178	58+
Nov. 25, 1917 ✓ THE WRONG AND RIGHT USE OF ESOTERIC KNOWLEDGE (3)	Man and mechanisation. "Animal-machines" ("Maschinentiere", in (the original, meaning both a common and (harmless animal or a dangerous one). Cosmic forces and machines.	178	218+ 230+
Oct. 09, 1918 ✓ THREE STREAMS IN EVOLUTION OF MANKIND (3)	The unleashing of great mechanical forces through harmonizing of vibrations.	182	156 THE WORK OF THE ANGEL IN MANS ASPIRATION LECTURE 5.
Oct. 12, 1918 ✓	Nature's rythms and technology.	184	295
Dec. 12, 1918 ✓ LECTURES IN THE CHANGED CONDITIONS OF THE TIMES	On the Law of Synchronized Vibrations and its technical transformation for all in the forementioned British population density.	186	70+ P. 41
Nov. 09, 1920 ✓ POLARITIES IN EVOLUTION OF MANKIND.	Keely's motor: the "coming together" of spiritual and material mechanism.	197	164+ P. 117
Oct. 20, 1923 ✓ MAN AS SIMPHONY.	Machines and vibrations	230	37

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- (*) Chapter "The Coming Power" in H.P. Blavatsky's "The Secret Doctrine" (English edition of 1888).
- (*) "Keely and his Discoveries" by Clara S. Bloomfield Moore (London, 1893).
- (*) "The Keely-mystery" by Egerton Sykes (London, 1972).
- (*) "Keely, pictures of his discoveries" by G. Wendelholm (Stockholm, 1893).
- (*) "About Mechanical Occultism" by Georg Unger, in "Communications about the Anthroposophical Work in Germany", 18 Jg., Number 68, Johanni 1964 and Number 69, Michaeli 1964. In German.
- (*) "The essence of subsensible forces (II), thought-forms and civilized gestures" by Bodo Hamprecht; in the weekly "Das Goetheanum", 60 Jg., Number 38, Sept. 20th., 1981. In German.
- (*) "Animal-machines" by Paul Emberson, in the weekly "Das Goetheanum", 66 Jg., Number 15, April 5th., 1987. In German.

(*) "Are Strader's ideas for today?" by Georg Maier, in the weekly "Das Goethe-anum", 69 Jg., Number 5, January 28th., 1990. In German.

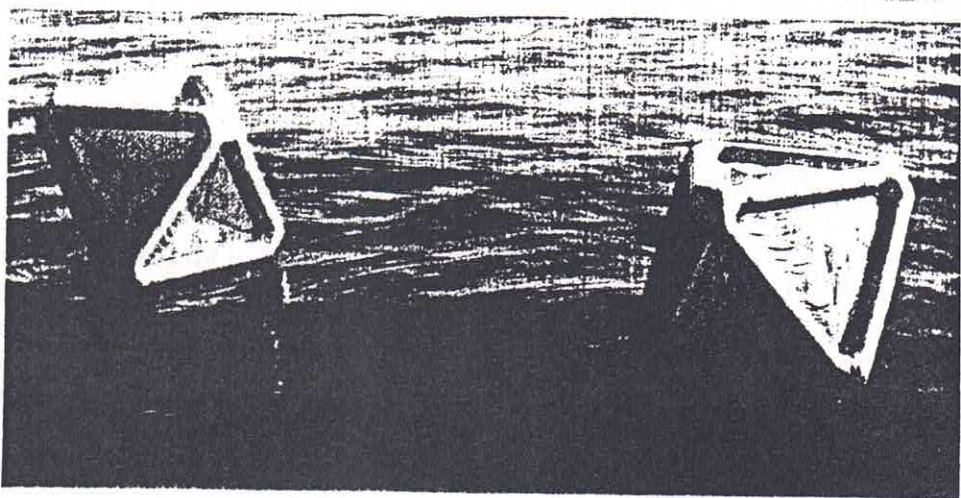
(*) "Developments, personality and knowledge by Strader" by Wolf-Ulrich Klünker in the brochure-supplement to the monthly "Die Drei", Number 3, Nov. 1990. In German.

Translator's Afterword

Before commenting on additional material I have found, let us make a deal: If any reader is kind enough to type into readable German the "demotic script" faithfully reproduced on pages N°17 and N°18, I promise I will faithfully translate it into English. You have my word for that!.



Above: The British Irvin Replica is a rapid response passive naval decoy system. Each deck-mounted launcher holds two liferaft-like containers, each housing one deployable reflector unit.



Above: The deployed Replica consists of two linked floating reflectors which give a ship-like signature to attacking missiles. The system can also be used for training by live missiles and guns.

As I was reading the original for translation, I saw the design and it reminded me one device I had seen - fully reproduced in the two illustrations over these lines - at the book "Modern Naval Combat" by David Miller and Chris Miller (Salamander Books Ltd., 129-137 York Way, London N7 9GL, United Kingdom; you should address any correspondence there).

When the Millers (on pages 81-82 of their work) discuss "Anti-Missile Decoys", they mention the usage of "chaff" (actually metallic strips, mostly Aluminum, dispersed in cloud by the proper means) to divert an incoming missile from its terminal point (i.e., striking against a ship). "Chaff" only serves to re-radiate back into the missile's guiding system the radar-beam the missile itself broadcasts to seek its target. When the beam hits

the metallic strips it generates "eddy currents" on their surface which produce an "electronic signature" (this is the technical name) that is recognised by the missile's guiding system, thus working (in theory, for practice has shown otherwise as the Millers themselves indicate) as an "attracting place" for the attacking artifact that is made to "believe" the cloud of metallic strips is actually the target (i.e., the warship to be attacked).

Because the space covered by the "chaff" is actually greater than that of the warship-under-attack (I am not talking about matter-density; a detector tracking material density would not be fooled so easily), the reflected signal is seen by the missile's guidance system as of greater area thus constituting a major "lure" into striking the decoy.

The "Replica" system seems to work in that way, re-radiating a more intense radar signal back to the attacking-missile than does the larger mass of a warship. The "trick" here seems to be in the concave triangular facets, each formed by three inward-going obtuse-angle triangles forming the reflectors.

Let us assume that you bedeck a warship with some dozen "Replica" decoys, placed all over its structure. If the warship is a frigate of, let us say, some 2500 tons in displacement then to the radar operator of an enemy ship it may look like a carrier of some 54,000 tons!. This tip is for free, naval strategists..

Strader's major device seems to be a machine of this kind, working on the principle of "radar-reflection", but this time the "beam" is cosmic force coming from nearby space. Why does this type of reflector works so good and not one shaped, let us say, like an Icosahedron (which uses much more faces)?.

In my opinion this is because the Octahedron (basic model of both "Replica" and Strader's major device) is the basic geometrical body for our planet as it arises from the application of the "Metric Theorems" (see my "The Energy Grid (I): Foundation, Equations and Ramifications", published by BSRF).

These very Theorems' application in the Strader machines also clears the usage of a four-armed cross in the glass-tubes with Uranium-points (see page N°6, N°12, upper N°13, N°16 and upper-left N°20).

Now, with all of the above in mind, is it possible to say that "the machines do actually work"?. I think it is not logical to say that because there are too few details to back such an statement:

(*) We do not know the sizes involved in Strader's major device and how they would relate to our planet's energy grid.

(*) We do not know the full details about the original devices, neither how many other instructions (and of which quality) were imparted by Rudolf Steiner to Oskar Schmiedel and how they were carried out.

(*) Also unknown is the possible existence of more-complete documents (schematics, written instructions by people associated to stage-performance, etc.) that might have existed and are nowadays lost. My point is: "If the Anthroposophists were careless enough to lose the original models, why not losing also important notes?".

(*) In which state are the sketches and notes that were published are?. How much has been "retouched" for the purpose of publicating a clean copy?. Do not get me wrong, please, I have no grudge to bear against Anthroposophists, but it is my duty to point out this possibility.

Buenos Aires, Argentina, March 11th., 1992.

Again and again enquiries arrive at the Record Office concerning the so called Strader Apparatus. Particularly sketches and full particulars of technical details are asked for, but also concerning passages in the Mystery dramas and in published lectures, also spoken deliveries leading to adequate acquaintance.

It is as anticipated. The materials existing in archives, as concerns their extent, are extremely sparse. There are only 3 sketches by Rudolf Steiner of the model group which appears in the 4th scene of the 3rd mystery drama "The Guardian of the Threshold". (GA14) However, this model exists no more although, as reported by Hans Kuhn it survived the Goetheanum fire. Which type of apparatus this was, which precise functions it had in respect to what purpose it should finally serve, on this account - so a sifting of the archive material shows - it yields furthermore only indications, no detailed descriptions. Although Rudolf Steiners instruction for the layout of the 4th scene in the "Guardian of the Threshold" is limited to a minimum: "On his (Straders) table there are models of mechanisms" - this could be of significance for further examination of the "Strader Apparatus", Whilst one notes that it is not an apparatus in the true sense of the word, but of "Models of Mechanisms" which portray meanwhile nothing but a first basic structure which requires further building up. Should these "Mechanisms" perhaps firstly be nothing else but an outward expression for that which Strader himself prioritised? "The technique to which I devoted myself, you should forget and distract me from it", thus Strader in the 4th scene. The incompleteness of these mechanisms is discernable, amongst other things, in the words: "Then followed attempt after attempt, until at last the harmony of the powers yielded upon my workbench that which someday in its full form would bring that pure technical freedom in which minds can develop" (first scene).

Moreover, there are in the Archive, sketches from Oskar Schmiedel who constructed the models for Strader's workroom according to Rudolf Steiner's "very provisional" specifications. Contrary to Rudolf Steiner's limited specifications in the Mystery - Drama, Schmiedel himself, said in his report on it that Rudolf Steiner had given very detailed advice for the building of the model. One gathers further information from his report which is included in this small documentation. In connection with Schmiedels representations, then follows the reproductions of sketches and also photographic reproductions of the model of the Strader Apparatus reconstructed by Hans Kuhn together with engineer Zoller. A series of further reproductions of sketches which are here likewise included unfortunately permit no specification of authorship.

We are very grateful for appropriate advice.

The following review of the remarks of Rudolf Steiner on the "mechanical occultism", Keely - Motor and on the Technique of the Future may help the interested reader to the basic elaboration and extension of the complex collection of questions bound up with the Strader - Problem. No claim to entirety is connected with this compilation of Rudolf Steiner's lecture work.

The way to a Technique of the Future is the theme of the hitherto unpublished lecture of 17th June 1920, which Rudolf Steiner held at the Technical High School in Stuttgart. The initiator was evidently the "Anthroposophic Workgroup of the Stuttgart Students", who in their writing of 12th June 1920 informed the administrative journals of the Technical High School about their existence and intentions: "We believe that Anthroposophy is qualified in outstanding measure to throw a fruitful light upon the various science and time problems and emphasise that it appears particularly suitable to us to lead away from so much relating to that which divides mankind, which today averts a new relevant economic and morally spirited social improvement of our severely tested German people". Further to these words, reference is then made to Rudolf Steiner's lecture "Humanities - Natural Science - Technology" which should have taken place at 7.30 p.m. in the assembly hall of the Technical High School. In this lecture, which can be regarded as a sort of prelude to the lectures held in 1921 about "Observation of Nature, Experiment, Mathematics and the grades of Knowledge of intellectual research". Rudolf Steiner characterised the development of the pure observation of nature beyond experimental thought as far as technology in conjunction with its effect on the awareness. Steiner imparted a clear denial here both to pragmatism and the attitude of awareness, through the "Who, himself containing in the human soul the conception of truth, is actually degraded". But Rudolf Steiner was not only concerned with criticism of the development of science, but of a kind of Symptomatology, of a distinct search for signs in the thicket of the most diverse starting points for a train of thoughts which are subject to time change. Had Oswald Spengler the "Death of Western Civilisation" already in view, thus Rudolf Steiner establishes an "Advancement" which, if it succeeds, will grasp the thought not only in its "Side effects" but in relation to its "Principal effects" (as one in human forming power). In this sense Rudolf Steiner called encouragingly to the students "whilst I believe in the power of the soul which lives in you, I believe that we must again come to an advancement".

Walter Kugler.

THREE SKETCHES OF RUDOLF STEINER.

Page 3

"Models of Mechanisms" for Dr. Strader's Workroom (1912). Instructions for the stagemodel design for the 4th scene of the 3rd mystery drama "The Guardian of the Threshold". "A room in rose red ground colour. It belongs to the home of Strader and Theodora, who is Strader's wife". One views the arrangement, that here in the common room Theodora and Strader perform various jobs. On its table there are models of mechanisms in their many kinds of relative mysticism.

SKETCHES OF OSKAR SCHMIEDEL (1887 - 1959)

From his "Memories of the rehearsal for the Mystery Plays in Munich 1910 - 1913".
Published in "Memories of Rudolf Steiner" Stuttgart 1979.

"Rudolf Steiner gave the models for Strader's workroom in complete detail, even with mention of the metals to be employed. They were built in my first Munich laboratory - very provisionally, contingent upon haste - at the beginning of 1912. In the following winter I had them built - also according to written proof - faithfully to Rudolf Steiner's specifications. They were used in 1913 in "The Guardian of the Threshold" and survived the burning of the Goetheanum, since for some reason they were not in the Goetheanum during this night. It was already impressive how accurate Rudolf Steiner's specifications were; a component was even supposed to represent a metal or a material which had not yet been discovered. It is very difficult to actually say what aims were in view with these apparatuses. The central apparatus appeared to me to be somewhat like a capacitor for the collection of inflowing rays and effects from the cosmos, perhaps also a transformer of these. Various metals: antimony, copper, nickel and also pitchblende were used; additionally a substitute for the above mentioned undiscovered material which should be blue coloured. Outside this apparatus there were still others fixed. Thus a hollow copper half sphere hung on the wall. The inner side was turned towards the central apparatus. Another apparatus perhaps represented a kind of measuring instrument.

He also once mentioned when Strader's invention should be put into action. It was in the not to distant future.

Unfortunately I remember no more of these particulars."

From his essay "About the Strader Apparatus".

Published in "Reports of the Anthroposophic work in Germany".

On the occasion of the performance of Rudolf Steiner's 4 mystery plays at the Goetheanum during the 1971 Summer Convention, the equipment which stands on the table in the 4th scene of the drama "The Guardian of the Threshold" may also be discussed. Actually there ought to be 2 tables, for beside the larger figure - somewhat on one side - originally stood 3 smaller objects. Additionally, at the performances in Munich, at a certain distance on the wall an open copper shell was mounted. In addition I refer to the equipment which was produced by Dr. Oskar Schmiedel and his mechanics in the winter of 1912 - 1913 according to Rudolf Steiner's specifications. When the "Guardian" was first performed in Munich in 1912, due to haste only a type of mock-up was ready, for which Imme von Eckardstein had received instructions through Rudolf Steiner. The following winter one had time to complete an exact model, subject to use of the various metals as they have been specified by Rudolf Steiner, for 4 hemispheres. He had now entrusted Oskar Schmiedel with this fabrication. Use was made of 2 hemispheres made of antimony, one of nickel, the 4th was half of copper. The other half was to be completed by means of a metal that had not yet been discovered at that time. Under this double shell hung slenderest sense-organs of so called gold striker membranes 1/1000 mm thick. On the 4th side of a lead cross a pitchblende point was to be installed. The connections between the 6 points consisted partly of copper, partly of tin. From one shell to the opposite one led a spiral glass tube. Still more mysterious were the 3 attachments, one of which constituted a glass vessel with suspended or coalesced platinum wire, the 2nd a lemniscate of large diameter glass tube equipped on top with a charcoal point which had over it a smaller copper shell. The 3rd structure should in turn possess 4 uranium points in horizontal level. The shape of this device thereupon indicates that it could rotate. Electricity should be averted.

The original models have now disappeared, lost, although they survived the Goetheanum fire. Insufficient care has been taken and the significance of this equipment not discerned. At a performance today one again sees a mock-up.

JAN 4/15

Notes on the Drawings and Photos of the Models.
Published in Beitrage Nr. 107 1991. Der Strader - Apparat.
zur Rudolf Steiner Gesamtausgabe.

1. (page 3 Beitrage) rough drawing - Spikes? /glass?/
vacuum? - on stand. no comment on origin
2. (page 4 Beitrage) rough drawing of hemisphere? section on
stand - no comment on origin
3. (page 4 Beitrage) Depends which way is up? could be some
kind of device to sit on the flat "electric flame" discharge spike.
- no comment on origin
4. (page 6 Beitrage) Drawing attributed to Oskar Schmiedel -
basic layout, german handwriting translated as follows: -
 - Hollow hemisphere of copper at the wall
 - flat triangle
 - Electric flame appearance
 - antimony
 - hemisphere
 - glass tube spiral
 - tip of material containing radium bent upwards
 - thin lamellas ? Blattchen = leaflet
 - yet unknown metal
 - antimony hemisphere
 - Cu copper.

5. (page 7 beitrage) Drawing of a rotating auxiliary instrument, made from glass tubing and tipped with radium spikes.

translations

-Glass tubes

-tips containing radium

-Horizontal

6. (page 8 beitrage) Drawing of a glass apparatus attributed to Oscar Schmiedel

translations

- Glass

- lead

7. (Page 10 Beitrage) - A photo of the Model of the Strader Machine

Note:

The proportions were given to Schmiedel and the original model was used in the 1923 Mystery Play presentation.

8. (page 11 Beitrage) A photo of the Model of the Strader machine

9. (page 12 beitrage) A photo of the three auxiliary instruments

10. (page 13 Beitrage) Various measurements for the making of the three auxiliary instruments - signed by Hans Kuhn (verantwortlich) = Responsible

1. The glass bottle - translations

-Lead hanging inside

- opening on top 1.5 Cm

-glass bottle 18cm high

(2 variations on the tip of the hanging lead)

2. The glass loop with a carbon tip, and associated copper hemisphere on a stand above.

-1.5 Cm Diameter (Durchmesser) The bulb under the carbon spike.

- 0.5 cm glass tube

-Glass tube - Rohr

- carbon

- glass

- 12 cm.

3. Arrangement of glass with pitch-ore tips
lead

dimensions of 12 cm overall and 8 cm on inner glass tubes of 2cm diameter.

11. (page 14 Beitrage)

another drawing of the cross with pitchblende tips, showing a double lemniscate form and annotation by Hans Kuhn (K)

"original - not by me"

12 (page 14 - Beitrage) Annotated drawing of the basic framework, showing

-Sn Zinn - Tin

- Antimony

- Goldschlager - gold beater?

- Ni - nickel

- Pitchblende

- Copper ?

- Tin ?

- Gutta percha

- Lead

- Copper hemisphere marked as being covered on one side,

- Blue = Sn ? (blue tin ?)

This drawing shows an arrow coming from the pitchblende tip marked +

Below

"Not by Kuhn", and to the lower right "Originals not by Kuhn"

13. (page 15 Beitrage) A drawing - signed at the bottom by H. Kuhn - Nov 48

Model of the Strader - apparatus following sketches made from the original in August 1913 Munich.

At the top

Overall setup in Strader's room

below annotations translated.

- lead frame
 - loose
 - fixed
 - left half is of a metal non existent in 1923 - provisionally covered in gutta percha.
 - antimony fixed
 - Sn = Tin
 - Pb = lead
 - Ni = nickel
 - Cu = copper
- Glass - presumably vacuum.
Uranium pitch ore.

Drawing of "Top View"

Notes: arrows are shown to and from the wall mounted Copper hemisphere? or shield.

3 arrows from the Pitchblend tip?

3 arrows pointing to the outside of the vertical Nickel hemisphere? - with question mark

arrow pointing under the horizontal hemisphere.

14. (page 16 Beitrage) *TSP*

Rough sketch of the machine - origin unknown

- antimony
- tin
- nickel
- copper
- pitchblende
- blue Sn ?
- Gutta percha
- Gold beater (beaten gold leaf = Goldschlager)

15. (page 16 Beitrage) Detail of rotating device with pitchblende tips

- glass
- lead
- pitchblende

16. (page 17 Beitrage)

Origin unknown - but in handwriting of Hans Kuhn

Title - Formbildend - Form Construction.

3 plan diagrams of sections, 2 vertical one horizontal.

Top side view

formbildener - shape forming

antimony

nickel - loose

blei - lead

pecherz - pitch ore

Cu - copper

to right

N ?= North

W = West

O= East

S ? South

Peche - pitchblende

Ant = Antimony

Zi = tin

Ni = Nickel

To centre

left

small circular diagram with 4 sections inside
marked

4 Cu (Stabe? Silber?) umwickelt asu/mit Guttap?

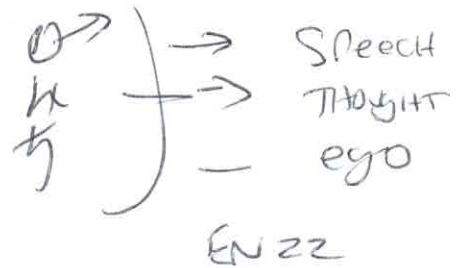
four copper (rods?) wrapped with? Guttapercha (this makes no sense)

perhaps Sinnesinhalt = sensory content

layout? setup?

sinn = sense

aus - out of ?



below that a vertical section:

anti = antimony

Zinn = tin

Ni = nickel

fest = fixed.

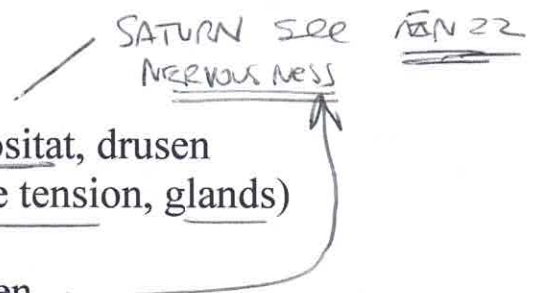
a list to the right

Silber = silver - sign for moon - Nervositat, drusen
(nerve tension, glands)

Blei = lead - sign for Saturn - Menschen
(mankind, people)

Zinn = Tin - sign for Jupiter - Jupiter written underneath -

THOUGHT



Flussigkeit - fluidity

MARS

MERCURY

Kupfer = Copper - sign for venus - venus written underneath

Bewusstsein Mut
awareness, consciousness,
heart, spirit nerve, courage.



P. 227,

ESOTERIC

LESSON

Antimon = Antimony - Bracketed - copper venus Blut - blood
Silver - Moon

strebt - aims, strives
z (ur) - towards
Aether - Ether

Abwehr - defense
gegen - against
elektrizitat - electricity

Alum?

Nickel - Silbersohle - silver insole (moon)
gegen - against
nervosiat - nervousness (Saturn)

THIS IS AT WEST SIDE
NICKEL SHEILD HAS
SILVER LINING
NOT HEMISPHERE
SHAPE

To the left of the list are two annotations

Ich - ego
astral body and Ich (ego)

Below are more drawings of the three auxiliary instruments,
the rotating pitchblend tipped device (pecherz) has now
underneath a double figure 8 frame of lead.(blei)
an arrow pointing anticlockwise.

the central one has markings glass, carbon (Kohle= coal-graphite)

The glass bottle shaped device is marked with arrow pointing to top and Pb (lead) inner wire.

The Main Drawing:

cu - copper - marks one circuit

Zi - Zinn - Tin marks 2 circuits

WARMTH - TONE
Cu → Fe
+ ← O

From Wall dish marked - Cu - copper

arrow inward - bewusst energie = conscious energy

arrow outward - Aether = ether

This arrow is pointing to the outer covering of the hemispherical shell - beside this is letter O = East.

An arrow points inward from the copper hemisphere beside Cu

Bewusstsein = awareness, consciousness (noun)

= MARS TONE ETHER

= # 

under the 4 hanging strips:

the symbol for moon,
the symbol for scorio

Nervositat - nervousness

N for North

Next to it, Antimony hemisphere - fest = fixed
konzentration? - concentration?

oder - or

verfluchtung ? evaporation /volatilisation/dissapearance?

17 (page 18 Beitrage)

Kupfer = copper

Kupfer mit Guttapercha = copper with gutta-percha

Antimon (kleiner als die Nickel & Kupferkugel) = antimony
(smaller than the nickel and copper balls)

Nickel = loose

Silberplattchen - silver lamellas

diese 4 kupferstabe mit gutta-percha / blau umspinnen. = these
4 copper sticks braided with gutta-percha blue

Pecherz - Pitch ore

aus Blei - of lead

Zinn - tin

Nickel = Nickel

Glassrohre Vakuum - glass tube vacuum

Blau (Kupfer) - Blue copper?

von oben - from above.

of the three auxiliary instruments

1.. lead, glass, pitch ore tips, lead, glass with pitch tips

2.. Carbon, glass, in wood

3.. Glass lead hanging inside 2 variations of tip.

18 . (Beitrage page 19)

drawing unknown - showing setup with directional arrows.

Not translated

19. (Beitrage page 20)

drawing of one of the auxiliary instruments

Pb - lead - glass

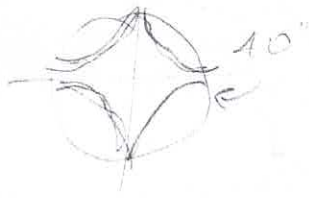
20. (Beitrage page 21)

drawing of one of the auxiliary instruments showing measurements

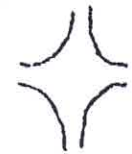
Dr. E. E. Pfeiffer reported:

In the spring of 1920, Rudolf Steiner suggested a formula for the study of etheric forces. He further said one should let a branch of a hyperbola slide over a solid and discover how it relates to the other branch. One could construct an axis system out of lead, and make an astroid out of copper.

$$x^{2/3} + y^{2/3} + z^{2/3} = a^{2/3}$$



9.54 "



aus Cu

eine Astroide

From a copper [Cu] Astroid

(Unfortunately, it cannot be confirmed whether Rudolf Steiner himself wrote down the formula and the accompanying diagrams. In addition, it is no longer known to whom Rudolf Steiner made these suggestions. It is very probable that this proposition somehow stands in connection with the Strader Machine.) [See also the sketch of the Strader apparatus that is reproduced on the front cover and frontispiece of this book, Tr.]

Monday 4 Oct '93 Visit Anthro Tech

Paul Emberson (Director)

Liliane LO MEDICO (Secretary Anthro Tech)

Moxie-Prodeleine Berset (Directrice of
Daniel (nocht versorgen) Old Peoples Home)

Page 17 is a drawing made bookstage
at Dyrsting plays at Dürchen 1913, and
not by R. Steiner. Best info on it is
Kuhn's speculation.

Page 14. Drawing by unknown person
made in 1928, but is unfortunately wrong.

Page 6. from his notebooks
This drawing is made by Schmiedel,
originally without annotation, but drawn
in 1912 in presence of R. Steiner. Later
he went back to R. Steiner and then
annotated this drawing.

This drawing is accurate and has the
correct proportion:

the comment of unknown "etal" here
is correct but has to be seen in the

2018
1993
25/

Page Agl.

light of the Ag. Course as the abundantly not commented on presence of silica. Unknown metal is actually Silicon, which has a blue hue when crystalline

the right hand side of the sphere and the thick black lines in astroid of machine is made of silicon.

the glon spiral inside "Proden Machine" has 28 windings in a clock wise fashion and supported on either side by structure.

Cwm is Atmos High

N. Hemisphere

ie. ETHYL (CHEMICAL) CELL

REVERSED ON ASTRAK - METHANE

ETHYL

IF CUCKWIRE

ie



LIGHT ETHYL FORM

ie

Anthro Tech Research Topics are:

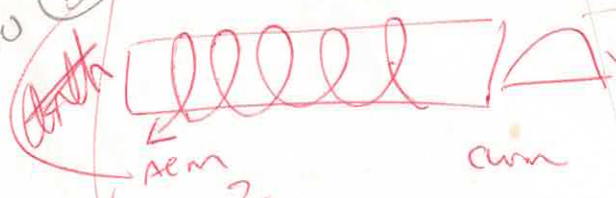
- Influence of low freq influences on bacterial cultures (not on single bacteria, but say a soil sample, or leaf surface sample grown on agar culture).

- Sensitive flame experiments (already done by Foraday).

flat flame (methane, hydrogen gas mixture) reacting to sounds (e.g human voice)

- Measuring UV-C light in Switzer Land. Large quantities available.

see WAACHMAN WOPS
28 SATURN
P. 203
THIS TUBE 40" LONG?
also (E)



30 years spent
- 1 year Humri

$$\begin{array}{r} 30 \\ \times 70 \\ \hline 2100 \end{array}$$

1 Day
1 year
2 months

4
et. frank

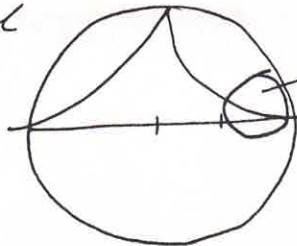
u

- Development of Shoden Machine seen as a future possibility.
Now they will put effort into the making of the machines of "Kally," who was positively regarded by R. Steiner.

- A German and a French group are meeting alternately fortnightly at Anthropos. Most work so far on the "Extensivis" aspects of machine.

General Comments.

General description is not correct. The so-called "framework of lead" to support frame is not essential at all. — and rep. for octahedral framework is — an astroid



role this circle of and you get astroid.

→ This machine works entirely on physical and etheric laws.

from schiller notes:

Auxiliary Instruments.

Treat these instruments in a more down to earth manner. They are mechanical instruments and not highly occult.

References.

Extra / Missing Literature.

- Temple Legends.
Look at contact summary for Technology aspects. (Kealy, Atom, Thought, Electricity)
- Karma of Vocation.
- Wrong / right use of Esoteric Knowledge.
3 lectures.
- Challenge of our time.
Technologies / occult. East West Middle.
- Karma of untruthfulness.
- H. Blavatsky. "Secret Doctrine", Chapter on Kealy which is quite good.
- Mystery Plays.
- Kealy's own book.

→ OCT

- Paul Emberson is interested to come to NZ. Will contact me.
- Frank Schmidt-Brabant has been very interested in the Autho Tech work and is very supportive.
- Get from National, inter loan library book of Kealy about his machines. and start work there!
- Kealy and his Discoveries by Clara Bloomfield Moore. University Books Inc / Secaucus N.J 07094.

Left Authotech 0740 by Train to
Zweisimmen - Spiez, Bern - Zurich Flughafen.
= 12.45

Paul Emberson "Maschinen Tiere"

Das Goetheanum 66 Jg. Nr 15
5 Apr 1987.

Georg Maier "Straders Idee für heute."

Das Goetheanum 69 Jg. Nr 5
28 Jan 1990.

Wolf-Ulrich Klunker. "Straders Entwicklung,
Persönlichkeit und
Erkenntnis."

in Beiheft zur Monatschrift "Die Drei"
Nr 3, Nov 1990.

Could photocopies be obtained?

References

- Secret brotherhoods. - GA. - Photography

See
Mich

- home of vocations

- Georg Maier - physicist bot. science section

- Wolfgang Komprecht Berlin

↓ has done work on this years ago.

Would like to give article:

1.4 Megabyte - 3 1/2" disc.

West Lim Basel:

Paul Emberson "Maschinen Tiere"

Das Goetheanum 66 Jg. Nr 15
5 Apr 1987.

Georg Maier "Straders Idee für heute."

Das Goetheanum 69 Jg. Nr 5
28 Jan 1990.

Wolf-Ulrich Klunker. "Straders Entwicklung,
Persönlichkeit und
Erkenntnis."

in Beiheft zur Monatschrift "Die Drei"
Nr 3, Nov 1990.

Could photocopies be obtained?

Return with answers + problems

Work out of social sphere in what a
High King can come in.
Really.

Wrong: unknown metal
Hafnium?

Karma of Vocation - Love for Machine!

(Paul Schiller) & Machines.
Shure fire flame (Karma of Vocation)
Broad casting, through flame
lecture, from Goetheanum.

The Strader Machine homepage

Under construction!

This page aims to be a repository of all information and indications concerning Rudolf Steiner's **Strader Machine** - a mysterious device which, by bringing technology into a completely human level, would help us overcome the current effects of materialistic world domination by greedy faceless corporations etc...

Latest updates:

11th Jan 1999	Added link to description of book by [link] which has a chapter on Keely's work from an anthroposophical perspective
10th Jan 1999	Added link to [link] on Keely's work and more detail on some of the references
9th Jan 1999	Added link to [link] and more notes for Beiträge 107 including a translation of page 5: memories of Hans Kühn
8th Jan 1999	Added more references; a link to [link] containing scans of images from Beiträge Number 107; and some annotation

There will be more info here eventually, but for now here are references and links:

References

Natural Science Courses

First Scientific Lecture Course - LIGHT: 10 lectures Stuttgart 23 Dec 1919 to 3 January 1920. Steiner Schools Fellowship Publications 1987.

Second Scientific Lecture Course - WARMTH: 14 lectures Stuttgart March 1 - 14 1920. Mercury Press N.Y. 1988.

Here is a [short summary of the warmth course](#)

Third Scientific Lecture Course - ASTRONOMY

Available online [here](#)

Also a lecture segment: Steiner "Concerning Electricity" 28 -01 23 Anthroposophical News Sheet. 23/24 June 1940.

References by Rudolf Steiner to Future Technology - Mechanical Occultism

1. 16-12-04- GA93 The physical Atom as condensed electricity. *Lecture*: "The essence and task of Freemasonry from the point of view of Spiritual Science" *Book*: "[The Temple Legend](#)". Rudolf Steiner Press 1985. lecture 9.

2. 23-12-04 - GA93 - Z 215 The atom as coagulated electricity. *Book*: "[The Temple Legend](#)", lecture 10, also typescript entitled "The work of the Secret Societies in the World: The atom as coagulated electricity"

3. 30-03-05 - Tolstoi - Keely (not translated)

4. 02-01-06 - GA93 "The Keely Motor - the interpenetration of Mechanism and Morality" *Book*: "[The Temple Legend](#)" lecture 20.

5. 12-02-06 - GA97 - Z59 - "The Keely Motor - The transformation of the mechanical mechanism within a moral mechanism" *Notes of a lecture: The St. John Gospel.*
6. 01-10-11 - GA130 - RSE 560 - Light, electricity, Chemical forces, Magnetism, Third Force, Answers to questions at end of lecture - "The Etherisation of the Blood" *Book: "The reappearance of Christ in the etheric" selected Lectures, lecture 9, Anthroposophic press N.Y. 1983.*
7. August 1912 - GA14 Mystery Drama - "The Guardian of the Threshold" Scene 1. Strader and the Strader Apparatus.
8. 20-06-16 - GA169- C43 - "Keely as a polar opposite to Tolstoy" *Book: "Toward Imagination" lecture 3 "The Twelve Human Senses" - Anthroposophic press 1990. Also:- Lecture Series "Cosmic Being and Egohood" Berlin June-July 1916.*
9. 02-10-16 - GA171 - Z156 - "Concerning the incorporation of magnetic and electric forces in Mankind from out of the cosmos: an examination of evolutionary development from Lemuria to the 18th and 19th Century" *Typescript: "The Templars" Notes on a Lecture.*
10. 12-11-16 - GA172 - "Man and Machine" *Book: "The Karma of Vocation" lecture 4. Anthroposophic Press and Rudolf Steiner Publishing Co. 1944.*
11. 26-11-16 - GA172 - "Modern Technology and demon magic" *Book: "The Karma of Vocation" lecture 9.*
12. 18-12-16 - GA173 - "Carrying over the etheric vibrations from Man to Machine" *Book: "The Karma of Untruthfulness" Vol.1 Lecture 7. Rudolf Steiner Press 1988.*
13. 16-11-17 - GA178 - Z444 - "Nervous systems and electrical Force: electric currents in man and their Ahrimanic Nature" *Typescript: "Geographical Medicine" Mercury Press 1979. (new edition)*
14. 25-11-17 - GA178 - "Man and Mechanisation, 'animal machines', cosmic forces and Machines" *Book: "Secret Brotherhoods" 1931. Reprinted as "The wrong and right use of Esoteric Knowledge" 1966. Rudolf Steiner Press - lecture 3.*
15. 09-10-18 - GA182 - "The release of enormous machine forces thru harmonising nature forces and technology" *Typescript: "What does the Angel do in our Astral Body" Rudolf Steiner Publishing 1941.*
16. 12-10-18 - GA184 - "Nature Rythms and Technology" *Book: "Three streams in the Evolution of Mankind" Lecture 5, Rudolf Steiner Press 1965.*
17. 01-12-18 - GA186 - "The principle of harmonious vibrations and their technical conversion (realisation) mainly within the English speaking world" *Book: "In the changed conditions of the times" Anthroposophic Press 1941 - Lecture 3 entitled "The Mechanistic, Eugenic and Hygenic aspects of the future"*
18. 08-11-20 - GA197 - Z392 - "Keely Motor - the unification of the mechanical-material with the spiritual" *Book: "East, Middle and West" 1920. More recently published as "Polarities in the evolution of Mankind" Rudolf Steiner Press 1987 - lecture 9.*
- 9) 20-10-23 GA230 - "Machines and Vibrations" *Book: "Man as Symphony of the Creative Word" - Rudolf Steiner Press - 1945, 1970, 1978, 1991. Lecture 2. Also a good translation of this segment in Anthroposophical News Sheet under the title "The Mechanisation which threatens mankind"*

From *Beiträge zur Rudolf Steiner Gesamtausgabe*

Heft 121 with the title "Aufgabenstellungen für Naturwissenschaftliche Forschungen; Aeusserungen von Rudolf Steiner" über: Die vier Aetherarten / Elektrizität / Veredelung von Torffasern / Radio ca. 80 S. kart. sFr. 18.- / DM 19.- / ~~o€S~~ 139.-. ISBN 3-7274-8121-8

Number 107 "Der Strader-Apparat". Rudolf Steiner Verlag, Dornach. Contains photographs of a model and diagrams etc.

Here is some for some of the diagrams as a text file.

Here is annotation for , and a translation of page 5: memories of Hans Kühn

Literature and additional notes on Mechanical Occultism

1. H.P. Blavatsky - "The Secret Doctrine" 1888 (first or second edition only are reliable) Book one - part three - X "The coming Force" - p. 554.
2. Clara Sophia Bloomfield Moore - "Keely and his Discovery" London 1893
Also: 2b) Clara Sophia Bloomfield Moore (Ed.): Keely's Secrets (Part I: Etheric Force Identified as Dynaspheric Force, Part II: One Phase of Keely's Discovery in its Relation to the Cure of Disease), ... 1888.
2c) Clara Sophia Bloomfield Moore (Ed.): Keely's Progress (Part I: Wisdom in Mystery, Part II: The Connecting Link between Mind and Matter), Theosophical Publishing Society/The Path, Adelphi W. C./New York 1894.
3. Egberton Sykes - "The Keely Mystery" London 1972
4. G. Wendelholm - "Keely - Pictures of his discoveries" - Stockholm 1893
5. Georg Unger - "On Mechanical Occultism" Periodical - Golden Blade 1966 - see the same issue for articles by George Adams - "Potentiation and the Peripheral Forces of nature" and lecture by Rudolf Steiner - "The Spiritual Individualities of the Planets" - particular note of Venus.
Also in "Mitteil. aus der anthr. Arbeit in Deutschland" 18.Jg. Nr.68 u. Nr.69
6. Bodo Hamprecht - "The beings of the supersensible forces: Thought forms and forms of Civilisations" - Das Goetheanum - 60 Jg. Nr.38, 20th September 1981 - not translated.
7. Paul Emberson - "Maschinen - Tiere" Das Goetheanum 66.Jahrgang Nr.15 - 5th April 1987
8. Georg Maier - "Straders Idea for now?" Das Goetheanum . Jan 28th 1990.
9. Wolf-Ulrich Klunker - "Straders development, personality, and scope of knowledge" in supplement to monthly Die Drei - Nr.3 November 1990. Not translated.
10. Mabel Cotterell - "The Undiscovered Third Power" Anthroposophical Quarterly - volume 6 No. 3 Autumn 1961.
11. Hans Heitler - "Atomic Energy and the Third Force" - Anthroposophical Quarterly- Volume 6 No. 4 Winter 1961.
12. D. S. Osmond - "The Third Force and the Interior of the Earth" - Anthroposophical Quarterly - Volume 6, No. 4 Winter 1961 - seven additional references.
13. John Waterman - "What is Atomic Energy" - Anthroposophical Quarterly- Volume 7 No.1 Spring 1962
14. Deryck J. Duffy - "Atomic Power" - Anthroposophical Quarterly - Volume 6 No. 2 Summer 1961.
15. James Kotz - "The Moral Imperative in Technological Development: Strader as Archetype" - Society for Evolution of Science 1994.
16. Hendrik Knobel - "Betrachtungen zu Strader und der Stradermaschine" 1969 Not translated. In

"Mitteilungen aus der anthroposophischen Arbeit in Deutschland", Jg. 26

Links to related sites

_____ has some links and texts (mainly in German) about the Strader machine and etheric forces, including some text relating to _____ which is also in English.

_____ is a group of people trying to re-build the Keely machine, who also have a cyber-store where you can buy materials for building one. Though not anthroposophists (judging by their spelling of Steiner's first name!) they have some interesting ideas including a summary of a Steiner lecture on eugenic, mechanistic, and hygenic occultism.

_____ has various articles on non-mainstream science.

Nick Thomas's excellent _____ to anthroposophical scientific work.

_____ also has links to other scientific pages relevant

The complete text of _____ (missing some diagrams in the later chapters) and a _____ are available online.

Other anthroposophical sites can be found from the _____ or worldwide anthroposophical network

A _____ investigating historical and occult connections of Keely's work can be ordered from illuminet.com.

_____ by Thomas H. Meyer has a chapter dealing with Keely's work from an anthroposophical perspective.

Acknowledgements

Thanks to everyone at the anthropos-science mailing list for contributing to this page. To subscribe to this list send the word `subscribe` in the **body** of an email with **blank** subject line to anthropos-science-request@reading.ac.uk

Any _____ for improving this page are welcome!

Note: I will only refer to names of contributors where the contributors have themselves put their name in the text of the contribution or if they specifically tell me to acknowledge their contribution on the page.