THE SECRET OF LIGHT

Part III

The Mystery of



Gravitation and Radiation

OMNIPRESENCE

The Universe of Being

THIS MAGNETIC-ELECTRIC UNIVERSE

IN POSTULATES AND DIAGRAMS

God is Light. God is Love.

God's creating universe is founded on Love. It is creating with Light.

The principle of love is desire to give. God gives love by extending His Light. God's love is a mirror of Light which reflects His giving of love by the regiving of love.

The law of love is rhythmic balanced interchange between all givings and regivings.

The symbol of love is the wave of dual light which gives and regives equally and rhythmically. This is a dual electric wave universe of interchanging light. (Fig. 1)

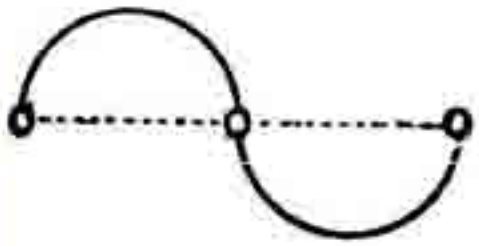


Fig. 1
Symbol of love extended from rest to motion

God's Love is everywhere; His Light is everywhere. There is naught but good in God's omniscient universe. Evil is a product of man's thinking.

God extends His love, His power and His knowing, radially, from zero points of omnipresent stillness to other zero points in the measure of His desire to give form to His imag-

inings. The intensity of desire extended from centering points of rest to extended points of rest determines the dimension of desire. (Fig. 2)

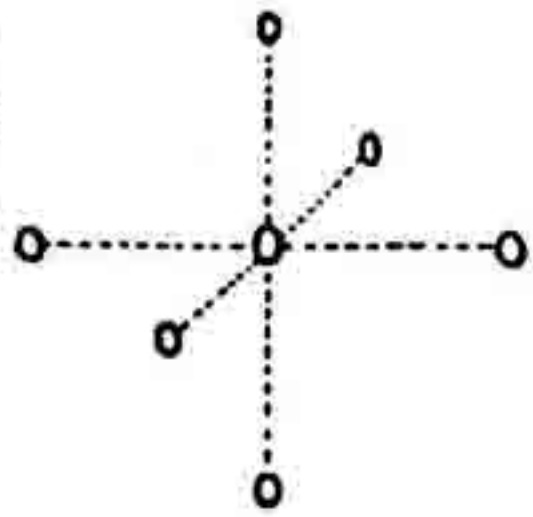


Fig. 2
Symbol of power extended from rest to rest

THIS RADIAL UNIVERSE

The entire mechanical principal of Nature, by means of which its light illusions of motion are produced, is the consequent effect of such radial extensions. Because of it, the seeming multiplication and division of the universal equilibrium into the opposed electrical pressures of gravitation and radiation, which form the foundation of this universe of change, are made possible. (Fig. 3)

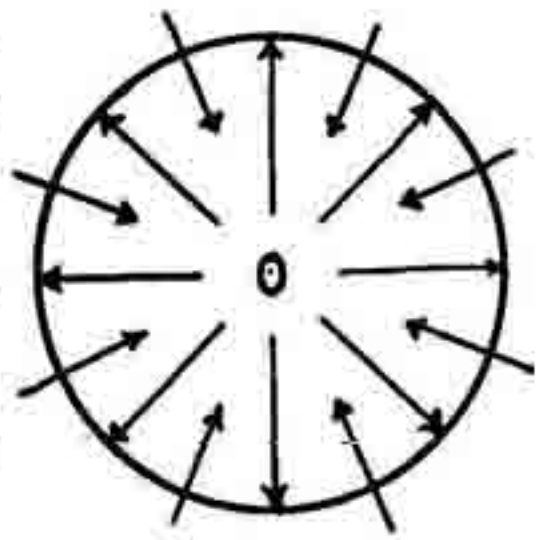


Fig. 3
The radial universe

God's imaginings extend from rest to rest in His three-dimensional radial universe of length, breadth and thickness—to become the stage of space for His imagined radial universe of matter, time, change and motion. (Fig. 4)

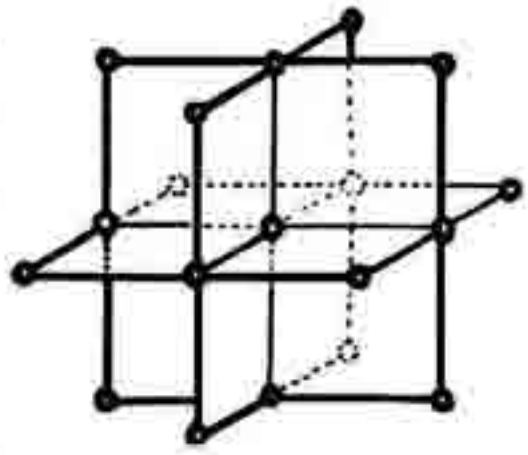


Fig. 4
God's projection mirrors of action

Points of rest, further extended to other points of rest, form three reflecting planes of still magnetic Light which are at right angles to each other. (Fig. 4) From the center of these three mirror planes of zero curvature, God's givings are radially projected to six opposed mirror planes for reprojection as regivings, to unfold

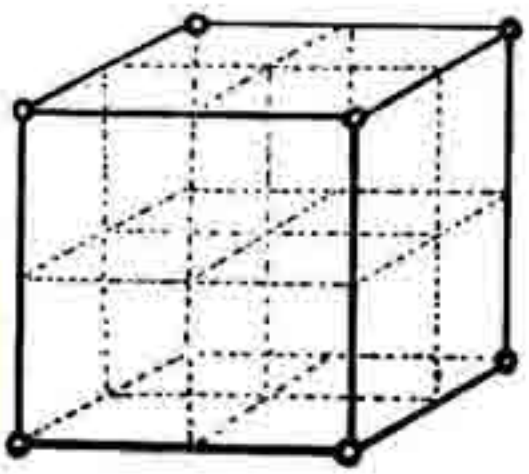


Fig. 5
Mirror planes of reaction

and refold the forms of God's imaginings in the curved electric universe of His desiring. (Fig. 5)

BIRTH OF WAVE FIELDS

The desire of God to give of His love is manifested in projected action as an outward explosion from a centering point of rest acting as a fulcrum. The desire to regive is simultaneously "radarred" back from every point of its progress to refold the unfolding action. All action in Nature is forever disappearing into a mirror of its own image of equal potential. (Figs. 5 and 6)



Fig. 6
The explosive action

Every projected action in Nature which is *simultaneously* "radarred" back as a reprojected reaction is *sequentially* repeated as a similar echo from its wave field boundary planes of zero curvature. (Fig. 7)

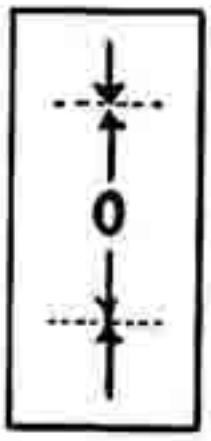


Fig. 7
Simultaneous reactions

All actions in Nature are outward explosions—slow actions of growing things, or fast actions of released dynamite or atom bomb. Conversely, all reactions are inward explosions. Actions unfold formlessness into form. Reactions refold form into formlessness. Actions are the basis of radiation. Reactions are the basis of gravitation. (Fig. 8)

Every action anywhere is repeated every where throughout the universe. As a consequence, harmonic centers of the same measure of desire extend their actions outward from their centers toward other harmonic centers. Harmonic explosions of equal measure thus fill all space in God's omnipresent universe. (Fig. 9)

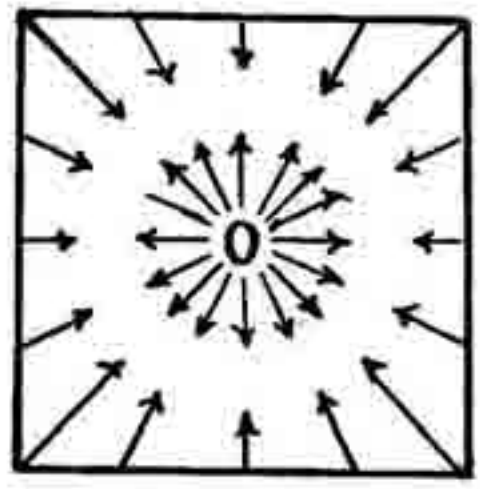


Fig. 8
Sequential reaction

Outward explosions which meet each other cannot be spheres, for all space must be filled. Tennis balls crushed together become cubes by gradually flattening where they meet at six points on curved surfaces. Likewise, outer explosions flatten into the six planes of cubes. (Fig. 10)

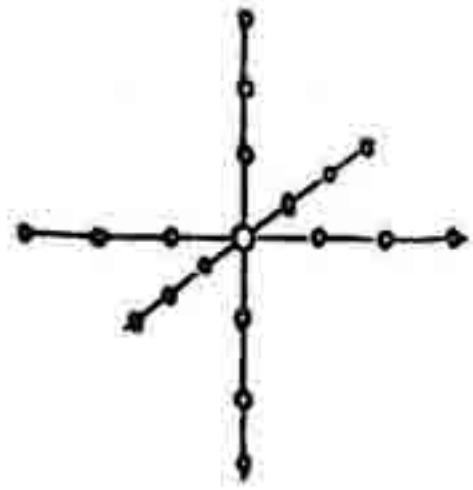


Fig. 9
All action is omnipresent

Outward-inward explosions are resisted at their maximum in the direction of the six points where spheres meet. They are consequently deflected to the eight points of least resistance which become diagonals of cubes instead of radii of spheres. (Fig. 11)

Eight directions of two-way expressed force are thus generated which become the basis of the octave wave. (Fig. 12)

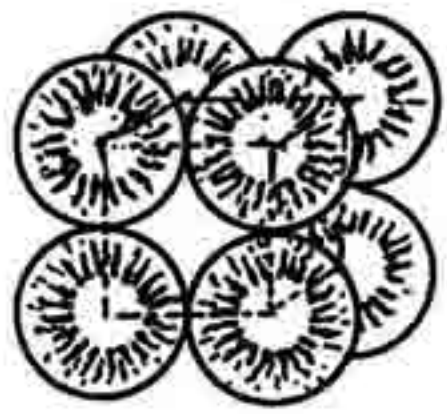


Fig. 10
Repeated explosions meet

Outward-inward explosions projected through each other develop two opposed pressures. The outward direction divides its potential by expanding it radially. The inward direction mul-

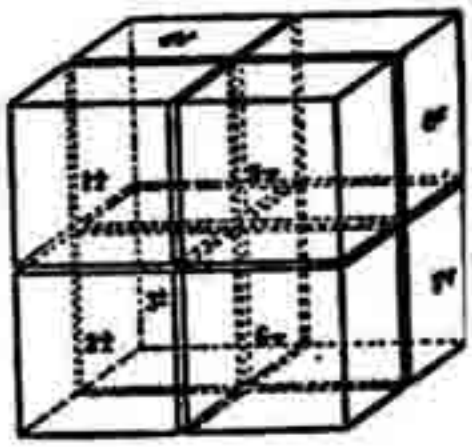


Fig. 11
Repeated explosions compress

tiplies it by compressing it radially. Thus, the two opposite plus and minus equilibrium conditions are produced which motivate this electric universe of two-way motion, give to it its heartbeat and produce all effects of illusion caused by the interchange of the two conditions of matter.

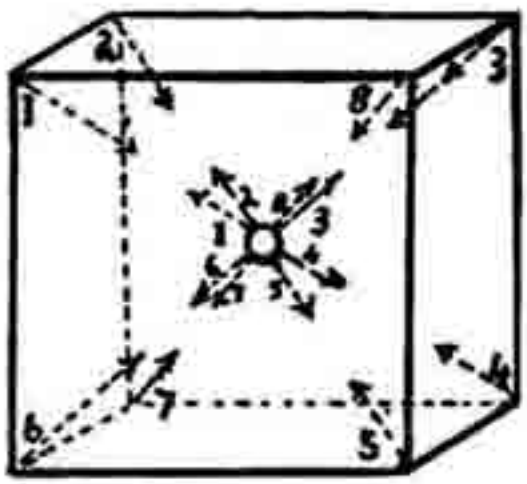


Fig. 12
The eight two-way directions of force

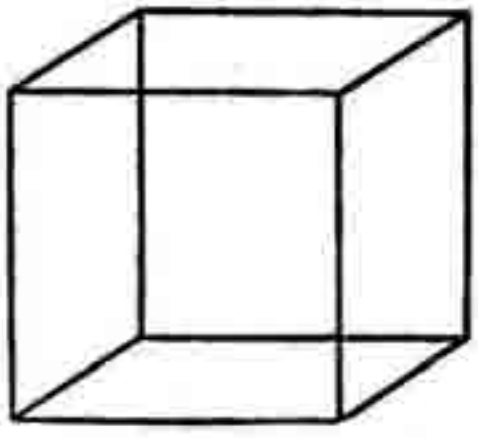


Fig. 13
The cube

THE CUBE-SPHERE

Pairs of interchanging opposed conditions are born from each other and become each other as a consequence of that interchange, as all opposites in Nature are likewise born. The cube and the sphere are the two opposites of form from which all forms of all things are born. They are the only forms ever created, being father-mother of all forms. (Figs. 13,14)

The sphere and the cube both manifest the cosmic principle of balance. Their position in light waves is in the one balanced position in the wave where compression and expansion have ceased to oppose each other, which is at wave amplitude (known as trough or crest). Carbon and sodium chloride are good examples of true cube crystallization. Likewise their atomic units are true spheres. Sodium-iodide or sodium-bromide do not

crystallize in true cube because of their unbalanced positions near, but not upon, the plane of wave amplitude.



Fig. 14
The Sphere

The cube and sphere are one, being two opposite phases of the same thing. The cube is the sphere extended to black coldness while the sphere is the cube contracted to white incandescence. Every true sphere in every light wave is an incandescent sun, regardless of its dimension. Prolating spheres, such as our sun, are becoming incandescent inward toward their centers, while oblating spheres, such as our planets, are becoming cold inward toward their centers.

The cube is born from the sphere to fulfill the desire of the Creator to produce form by projecting light from incandescence toward the cold dark of the heavens. Conversely, the sphere is born from the cube to fulfill the other desire for oneness by reprojecting cold dark from the heavens to light in the seed.

The creation of all forms of matter is an eternal interchange between the father-light of incandescent spheres and the mother-light of cold cubes. All forms are born in the direction of the coldness of space and are voided in the direction of incandescence.

Every creating body is set out into space from its crucible in the sun to cool into the form appropriate to its extension from the sun. That is one half of the cyclic

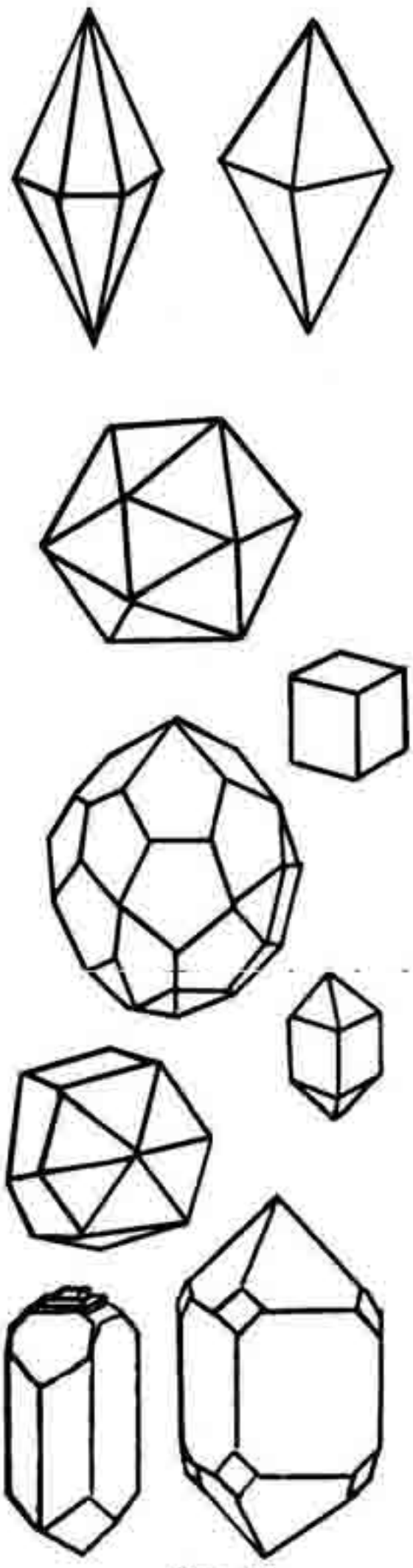


Fig. 15
All crystals are cube sections

journey of every body from the sun and back to it. The other half of the cycle is the return to the sun to void the body of its form for the purpose of acquiring a new body. Every cycle of motion is a journey from heat to cold and back again.

All bodies are *formed* by *freezing* and *voided* by melting. The freezing and melting points of all bodies are dependent upon their respective densities and electric conditioning.

The sphere is the clay of earths, the light of suns and the formlessness of seed. It is the womb from which the clay of earth extends into the cube-bound heavens to expand into form, and it is the tomb within which all form is voided for regiving to the heavens as a new form.

Every form in Nature is either becoming a cube or a sphere, or is a section of either one. Complex bodies are multiples of spheres of matter surrounded by multiples of cubes of space in multiples of wave fields. All crystal shapes are sections of cubes. Their shapes are determined by their positions in their wave field. (Fig. 15)

The cubes of space are wave fields which bound all interchanging motion between the two conditions within it. Motion cannot pass through these planes but can be reflected sym-

metrically back or extended symmetrically toward the center of the adjoining wave field.

Within each cube field is the curved universe of two-way light illusion; and beyond, to the farthest reaches of space, is a repetition of illusion from wave field to wave field at the rate of 186,400 miles per second. That is the speed in which every action-reaction anywhere repeats itself everywhere. This illusion of motion gives rise to the belief that light "travels."

Wave field boundary planes of zero curvature insulate all effects of motion, which take place within it, from every other wave field. Centering the wave field is the incandescent sphere which mates it. The potential of the entire field is divided equally between its centering sphere of *multiplied* matter and the surrounding space of *divided* matter.

Each mate of each wave field in the universe is balanced with its opposite mate, even to the weight of one electron. The reason why the centering sphere is of high potential and its surrounding space is of low potential is due to a difference of volume. The centering sphere may be a few thousand miles in diameter and its surrounding space many millions of miles in diameter; yet they are equal, potential for potential, but unequal volume for volume.

Neither of these mates could sustain its separateness of condition unless it constantly interchanged to give all

of itself to the other alternately in repetitive cycles. Spheres must give to cubes of space by breathing out to discharge themselves and charge space. Space must then regive to spheres by breathing out from itself to discharge itself and recharge spheres.

Each short cycle of interchange is accumulated into a longer life-death cycle in which solids entirely disappear into space and space interchanges its potential to become solids. This principle constitutes the forever inside-out outside-in turnings of Nature by means of which all forms sequentially appear, disappear and reappear.

The inbreathing of spheres generates low potential into high. The generative process of Nature is gravitation. The outbreathing of spheres radiates high potential into low. The degenerative process of Nature is radiation.

Multiplication and division of expressed energy into the high and low potential of gravitation and radiation is made possible by the plan of Nature which causes all actions of Nature to extend radially from omnipresent points of magnetic Light.

Gravitation pulls spirally inward from within to wind light waves into solids to center space.[2] Radiation thrusts spirally outward to unwind dense solids into space to surround solids. Each is an equal reaction of the other. Each becomes the other sequentially.

Gravitation is the positive electric principle which exerts its pressures centripetally toward the maximum incandescent points of compression in every wave field. It is the father principle of Nature, the integrating principle of "uphill flow of energy" which forever balances its "downhill flow."



Fig. 16

The Mystery of Gravitation and Radiation[2]

Radiation is the negative electric principle which exerts its pressures centrifugally toward its wave field boundary planes of magnetic Light. It is the mother

principle of Nature, the disintegrating principle of "downhill flow of energy" which forever balances its "uphill flow."

The Creator extends power of motion to but one half of a cycle for each of the two opposite manifestations of His desire. Gravity gives a material form to bodies to manifest the idea of bodies. Radioactivity gives spiritual formlessness to the heavens for regiving to earths as formed bodies.

Gravity begins its half cycle as the inward explosive reaction of an outward explosive action, thus fulfilling the law that all opposite expressions are born from each other and interchange to become the other. It ends its half cycle at a point of rest at the still point of magnetic light which centers every material body whether of microcosmic or macrocosmic dimension. Gravity then ceases when its motion ceases.

There is no "center of gravity" in Nature. The centering Light of every mass is still magnetic Light. Likewise the still axis of every vortex is still magnetic Light.

Radiativity then begins its half cycle from that point of rest and ends it on wave field boundary planes of magnetic Light where gravity began. Radiativity then ceases when its motion ceases.

Both gravity and radiativity borrow their power to find balance in rest at their journey's end from the points of rest of their beginnings. They each repay their sepa-

rate borrowings to the other at every point of their respective journeys. Each thus perpetually voids itself by giving to the other. At each journey's end, each opposite cancels itself out by giving its all to the other. *It is then reborn as the other.* Everywhere in Nature each action is its own reaction.

"Death gives to life that life may live; and life gives to death that death may die."

—*From* THE DIVINE ILIAD

Every action in Nature demonstrates this principle. A ball thrown in the air must start from a point of rest, motivated by energy borrowed from the "center of gravity" of this earth which is its fulcrum. The point of rest in the thrower's hand is an extension of the earth's still center.

As the ball ascends, it decelerates as it pays its borrowed energy to space, thus charging space with the borrowings of earth and equally discharging earth. When the borrowing is fully paid the ball comes to rest. From that point it must again borrow the energy from space which it borrowed from earth to pay for its return to earth. Upon its accelerative journey to earth it passes each point at the same speed it registered on the upward half cycle, thus discharging space and equally charging earth to balance all borrowings and payings.

All actions in Nature are extension-retractions from zero to zero, and back again to zero. All are balanced simultaneously and sequentially. This is a zero universe of plus and minus zero which never exceeds the zero of the One Light from which it seemingly sprang as multiplicity.

THE TWO OPPOSITE ELECTRIC CONDITIONS

This zero universe of equilibrium demands two opposed conditions in order to simulate that which our senses interpret for motion and change. These two needed conditions are plus and minus equilibrium; positive and negative electricity. (Fig. 17)

Plus zero means a credit of pressure borrowed from the universal equilibrium to compress a large volume into a small volume. Minus zero means an equal expansion to balance the borrowed compression.



Fig. 17
X plus zero equals zero minus X

A thousand dollars borrowed from a bank is a plus condition of credit which is balanced by an equal debit of one thousand dollars. The central zero represents the bank. The extended zeros represent credit and debit. Both are equal but opposite. A credit of one thousand dollars equals zero. When the credit is paid in part or in full the debit is proportionately voided simultaneously with the credit.

These two opposite conditions of credit and debit correspond with the two opposite conditions of compression and expansion in Nature upon which motion is dependent. When an equilibrium pressure is divided into opposite conditions from the zero from which both are extended, motion between the two becomes imperative. They must interchange with each other to void their unbalanced conditions. *This is the principle of the electric current.*

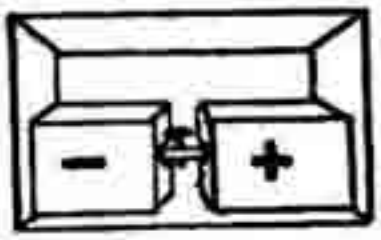


Fig. 18
Basis of Motion

Fig. 18 represents a room of equal pressure. Two tanks in it are connected with a tube and petcock. By pumping all the air out of one tank into the other, the two plus-minus conditions have been established which make motion imperative. Nature always borns each opposite from the other in this manner.

By opening the petcock an outward explosion will take place in the plus tank. An inward explosion of equal potential will take place in the evacuated tank. The plus tank will *discharge* part of its compressed condition to *charge* the minus one. The electric battery is the same in principle. (Fig. 19)

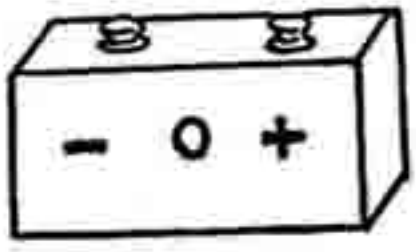


Fig. 19
Equal opposite potential

In Nature the discharged radiation which explodes outward from the sun simultaneously explodes inward as gravitation.

CAUSE OF THE UNIVERSAL PULSE BEAT

Matter and space constitute the two conditions necessary for interchange of motion diagrammed in Figs. 18 and 19 with one distinguishing difference. That difference is that the two conditions represented by the tanks of the compressed and expanded air and the two cells of the electric battery are *equal in volume,* while bodies of matter and their surrounding space are *unequal in volume.*

The expanded condition of space is millions of times greater in volume than the compressed condition of its centering body.

This explains the seeming mystery of gravitation and radiation which causes solid objects to fall toward the earth and gases to rise toward space.

In the electric battery the interchange between the two pressure conditions can void both in an explosive flash by a short circuit if the wire connecting both cells is heavy enough. If a small wire connects both cells the interchange takes time to complete the voidance. Each condition gives to the other in installments, for the wire is not big enough to void both conditions instantly. The consequent giving and regiving by the two opposite pressures constitute the oscillations of the electric current. Electric interchange by installments is measured and recorded by waves, and the time element

of those recordings of interchange are wave frequencies. They constitute the pulse beat of the electric current. When an electric wire pulses with wave frequencies of an electric current we say that it is a live wire. When it stops pulsing because the current is disconnected we say that the wire is dead, for it no longer pulses.

All Nature pulses in measured frequencies with the heartbeat of the universal electric current, as evidenced by universal breathing inward toward bodies and outward toward space. When breathing is switched off in man's body by the cessation of interchange between the two opposite pressure conditions of matter, we say that the man is dead. By solving the mystery of "installment interchange" between bodies and space one can more fully comprehend the fact that neither pulse beat, breathings nor wave frequencies of interchange have any relation whatsoever to life, for they relate only to the principle by means of which life or energy is manifested by motion.

The first step in solving this mystery lies in the principle by means of which matter and space become unequal in volume.

Fig. 20 represents the electric battery with the line AB dividing the two pressure conditions as the equilibrium of both. This line represents *a static equator*—a plane of rest from which both

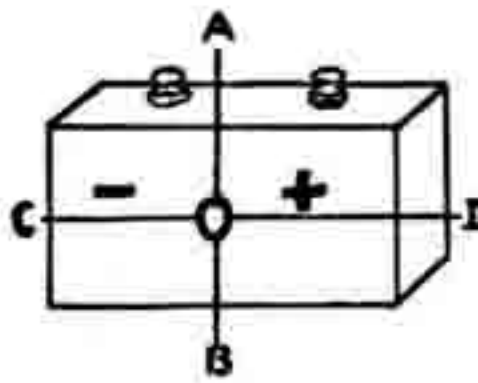


Fig. 20
Balanced interchange between equal condition

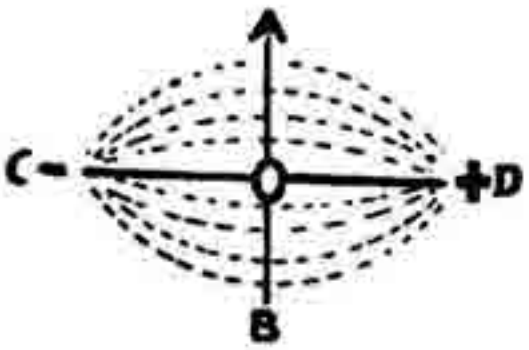


Fig. 21
Symmetry of the cube
AB Static equator CD
Dynamic equator

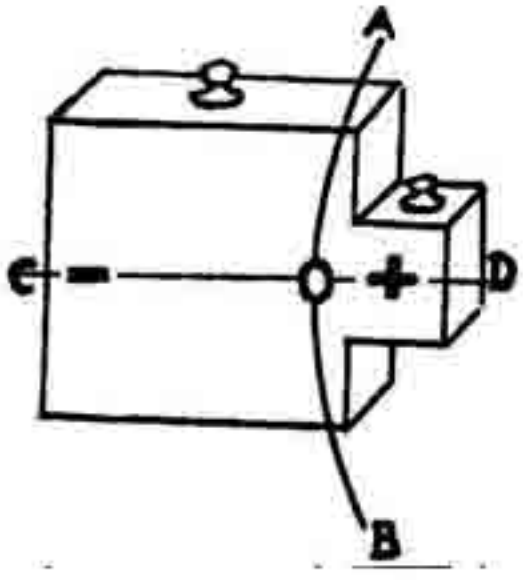


Fig. 22
Interchange between unequal opposites

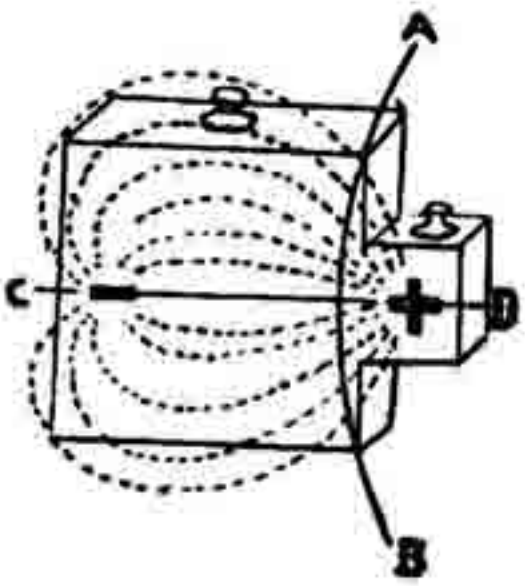


Fig. 23
Curvature increases

opposite conditions are extended at right angles as *a dynamic equator*—line CD.

Fig. 21 represents static and dynamic equators (or magnetic and electric) at ninety degrees from each other. As the two opposed conditions which extend from these planes of rest are equal, the lines of force which connect both are as symmetrical to both diameters as though reflected by mirrors placed at right angles to each other. Such symmetry belongs to the cube and sphere alone.

Fig. 22 represents the electric battery with the negative cell much larger than the positive cell. The static and dynamic equators will still be at right angles to each other but the static equator *will not be in the middle.* It will be much nearer the positive pole and *will be curved* because lines of force which record the measure of interchange between the two opposite pressures can be symmetrical to the dynamic equator only, and not to the static equator.

Such symmetry belongs to the radial universe of cone sections. All dynamic equators are radial, and all lines of force of conic symmetry are forever changing to record the forever changing potential of dynamic equators.

Fig. 23 illustrates this principle which forms spheres and creates the illusion which makes heavy objects seem to be attracted radially toward the earth and tenuous matter thrust radially away from it. Line AB shows the curvature of the static equator which causes the dynamic equator to expand at its negative end and contract at its positive end into the radii of a cone. The outward thrust of radiative pressures would curve the base of the cone thus produced to correspond with the curvature of its static equator, AB.

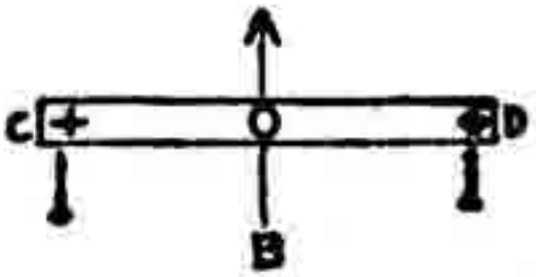
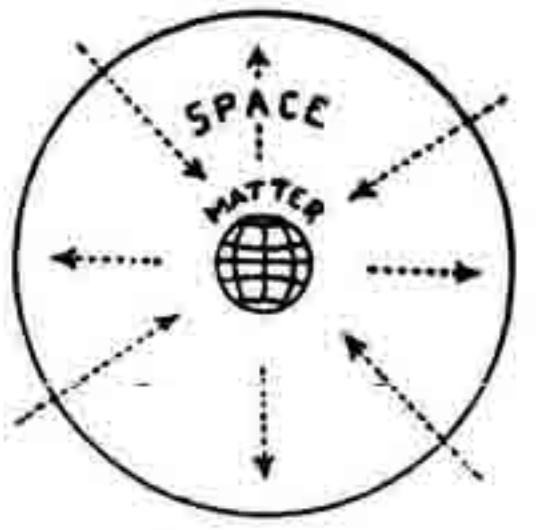


Fig. 24
Equal interchange

Fig. 24 represents a bar magnet which has been divided into the two opposite pressure conditions of this electric universe by coiling a charged wire around the bar of steel, thus forming two opposed plus and minus electrical vortices with intensities measured at poles.



Two nails of equal weight are suspended to these poles. It is not magnetism, however, which picks up these nails. It is the electric vortices which pick them up, for the vortices are still effective upon that steel bar even though the electrically charged wire has been removed.

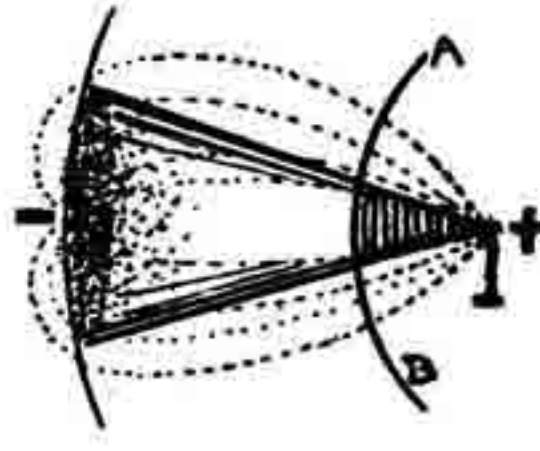


Fig. 25 A & B
Interchange between unequal volumes

It is the whirlpool motion of the electric vortex which performs the work of lifting those

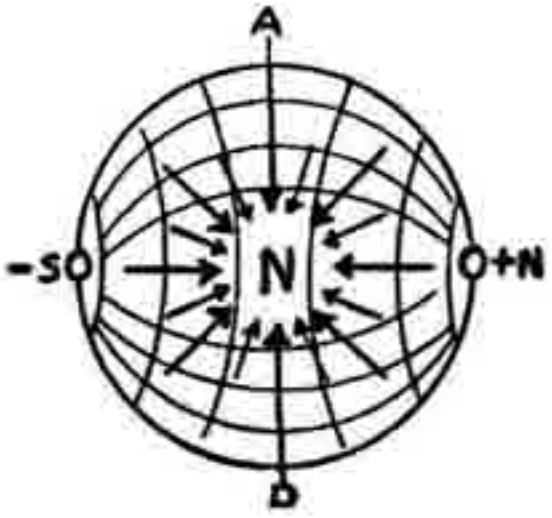


Fig. 26

nails and not the stillness of the poles of magnetic Light.

If the bar magnet is enlarged at one end it becomes a cone. The division into the two opposed conditions will still be equal, as in Fig. 25, but the volume will bè so large in one as compared with the other that the nail which the positive end will still pick up cannot be lifted by the negative end unless the nail is ground to a fine powder. The negative end will then lift the same weight in total but only by dividing the nail over the whole volume.

Before this principle is applied to matter and space, it is necessary to correct the general impression that the earth is a magnet. By referring to the bar magnet pictured in Fig. 24 it can be seen that its poles alone express gravity. The earth, on the contrary, expresses gravity at its center. (Fig. 26)

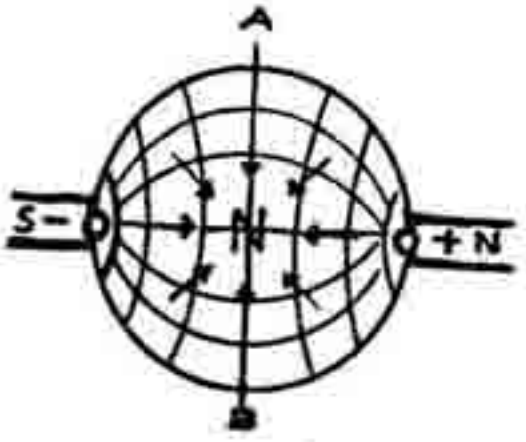


Fig. 27
Matter is formed between opposite poles in waves

The earth is formed between magnetic gaps of its wave as all bodies are formed (Fig. 27). If two bar magnets are placed so that negative and positive ends are near each other, that still point which we call the center of gravity will evidence itself between the two ends. If iron filings are placed in this gap, conditions of gravity similar to those of the earth will be found there.

Gravity will end and radiation will begin at that center. Nails will fall toward it from any direction, as heavy objects do on earth, and compass needles will follow the vortical directions of lines of force which extend toward its poles.

The analogy between the unequal battery cells and bar magnets is now sufficiently complete to compare them with matter and space. In Fig. 28 two bar magnets have been fanned out into cones. The weight which the positive end will pick up as a solid has to be finely divided in order for the expanded volume of the negative end to pick it up.

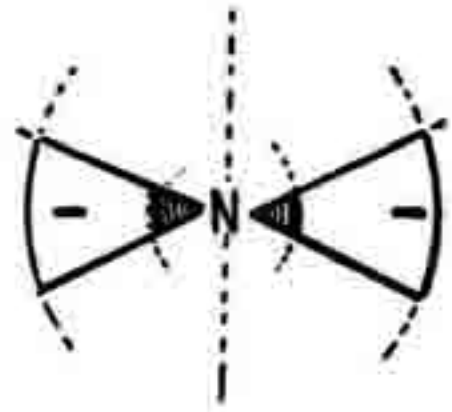


Fig. 28
Curvature increases as potentials divide and multiply

The essential difference between the two opposed pressure conditions of the electric battery and the two of matter and space is that in the battery the opposed potentials are equal because the volumes are equal.

In the universal battery of matter and space the two opposed conditions are conspicuously *unequal*. The resultant high and low potential contrast each other so violently that solid matter "falling" toward the high potential of the compressed condition must be divided into vapors and gases before the same substance will "fall" toward the low potential of the expanded condition. A solid bar of iron will *fall* radially toward the earth because both are high potential compressed

solids. If divided sufficiently by vaporizing it, that same bar of iron will *fall* radially toward the heavens.

Gravity and radiativity are opposite pressure *conditions* of the same thing. Both of those pressure conditions are in every creating thing. Every creating thing can expand to lower its potential, or can contract to raise it. Like conditions seek like conditions to find balance. Creating things changing their compressed conditions to expanded conditions must move to find balance in like conditions. That is the sole cause of two-way motion.

Every potential has a balancing potential position somewhere in the universe. Desire to find that position is in every creating thing and any restraint exerted to prevent it from moving to find its balancing potential can be measured as weight.

The cause of the radial universe which constitutes matter and space lies in the inequality of its two opposite pressure conditions both as to volume and potential.

The cause of the universal pulse beat and the breathing which motivates the manifestation of life in every creating thing lies also in this inequality. All creating things pulse and breathe just as organic "life" pulses and breathes, but that is not *life;* it is but *motion*.

THE TWO OPPOSITE ELECTRIC DIRECTIONS

The universe is dual—the still magnetic universe of reality and the *dynamic* electric, radial two-way universe of illusion which extends from the static universe at an angle of ninety degrees.

In the dynamic electric universe there are two directions—inward and outward radially from a still *point* of magnetic Light to still *planes* of magnetic Light. All motion within magnetic wave fields is controlled by the Creator. (Figs. 29, 30)

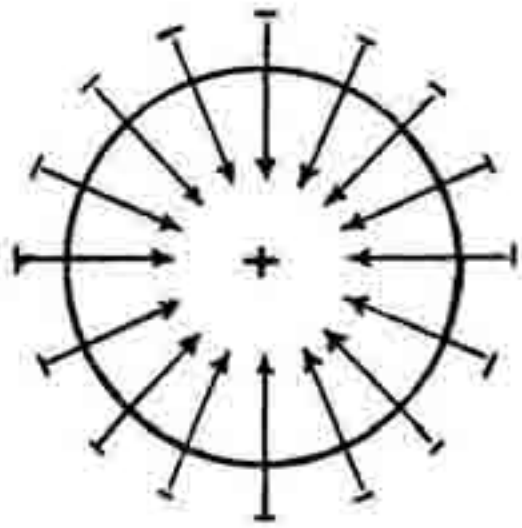


Fig. 29
North

"For behold, I am within all things, centering them, and I am without all things, controlling them."—From THE DIVINE ILIAD

The inward radial direction is North—the compressive direction of gravity which multiplies potential by compressing light waves radially into smaller volumes of greater frequencies. The outward radial direction is South—the expansive direction of radiation which divides potential by expanding light waves into larger volumes of lesser frequencies. (Fig. 31)

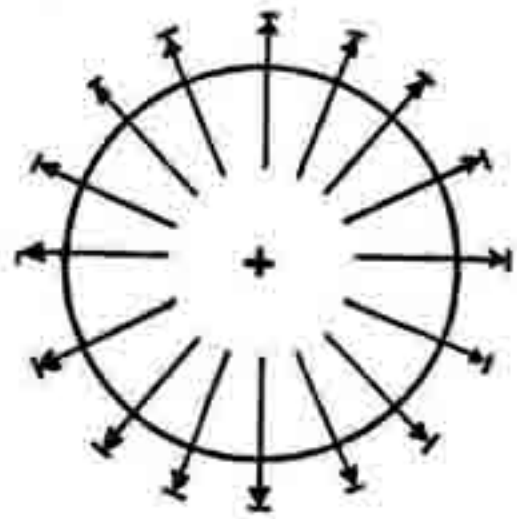


Fig. 30
South

The two directions of the static universe are

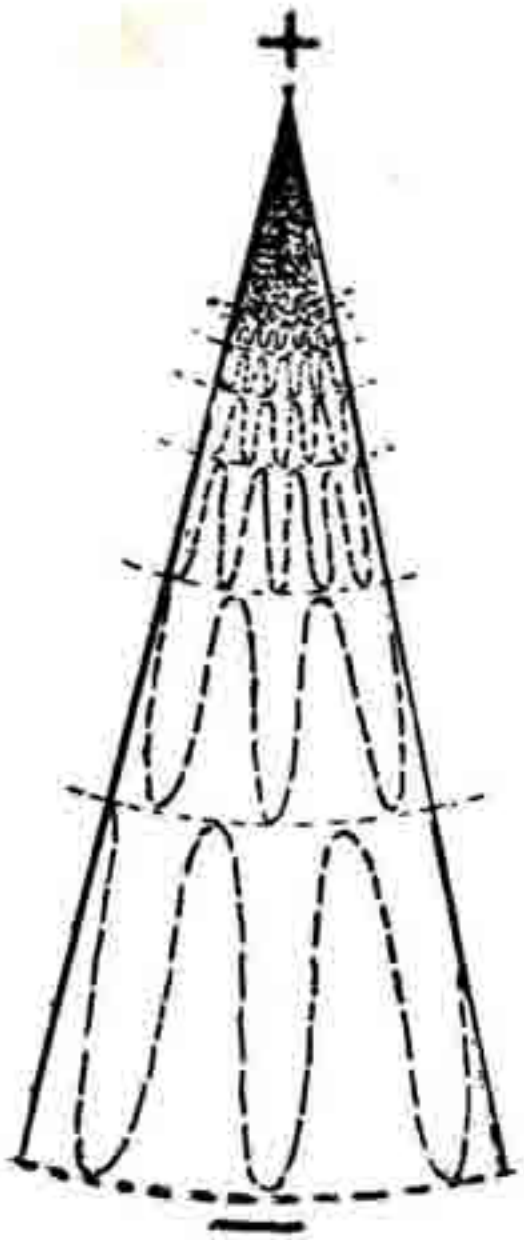


Fig. 31
The division and multiplication principle

East and West. They are static because they are spherical. They follow curved planes of unchanging equipotential pressures, such as the contour of the earth or sun or of the orbits of planets or floating clouds. East and West do not oppose each other. Each arrives at its own starting point without change of potential. (Fig. 32)

North and South, on the contrary, diametrically oppose each other. They are constantly changing. They seek opposite directions, each passing *through* the other in opposite spiral lanes; each interchanging with the other as it passes; each voiding the other through that interchange, and each becoming the other because of it. (Fig. 33)

East-West spherical planes form the axes of light waves from which the dynamic universe extends its gyroscopic wave, radially, at amplitudes of ninety degrees and also its other gyroscopic octave tones at the varying degrees of pressures where the elements of matter are formed.

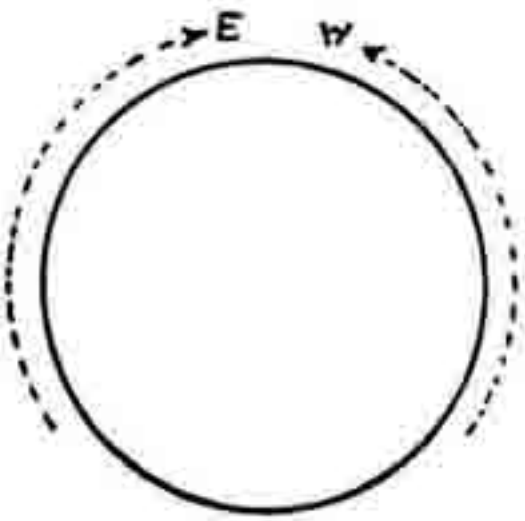


Fig. 32

East-West spherical planes are also the fulcrums of wave levers which curve gravity as they pump high potential into low to expand solids into the gases of space, and low potential into high to compress light waves into the solids of earths. (Fig. 34)

Incandescent suns of white hot light are born from cold black darkness and cold dark space is born from white hot suns.

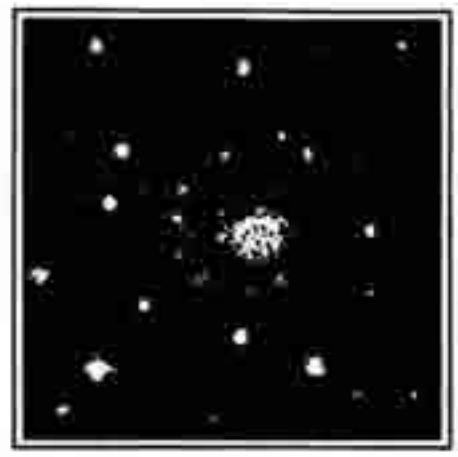


Fig. 33

THIS CURVED ELECTRIC UNIVERSE



Fig. 35
Light comes from darkness and darkness from light

All suns are *generated* into incandescence by two black rivers of evacuated light which flow centripetally inward toward their still centers by the way of their poles. Conversely, darkness of space is *radiated* from two incandescent rivers of white light which flow centrifugally from suns' equators. (Fig. 35)

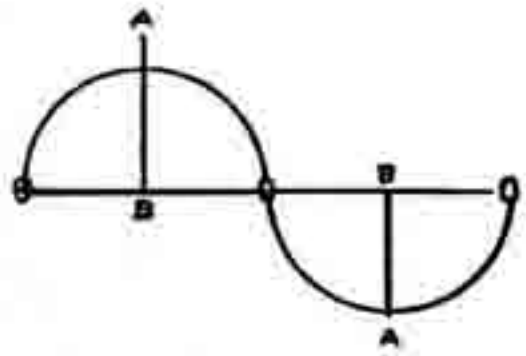


Fig. 34





Fig. 36 and 37

Thus are the four arms of all spiral nebulae formed as two pairs of opposites interchanging with each other to become the other two; the two black arms belong to gravity and the two white ones to vacuity. (Figs. 36, 37, 38)

This electric universe is curved—motion is spiral. Where motion ceases, curvature ceases. Cleavages between wave field boundary planes of crystals separate them into their individual crystal forms. Motion cannot pass through those planes, for there is naught but stillness reflected extension from wave field boundary planes.



Fig. 38
The four rivers of light

Curvature is imperative under such conditions for opposed pressures resist each other and each must bend to the other to find passage for its own expression of force. *Motion and curvature simultaneously begin and end when opposition begins and ends.* (Zero in Fig. 39)

Each wave field is like a separate projection machine in which its own curved motion picture universe is dually projected upon its self-measured zero screen of space. (A in Fig. 39). The incandescent sphere of light which centers it pictures the forms of desire in the measure of desire for manifestation. (See also Fig. 38)

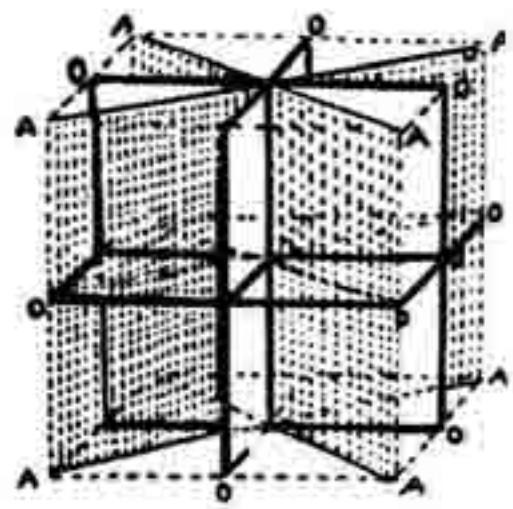


Fig. 39
O-Mirror planes of still light
A-Screen of space for projected lights of motion

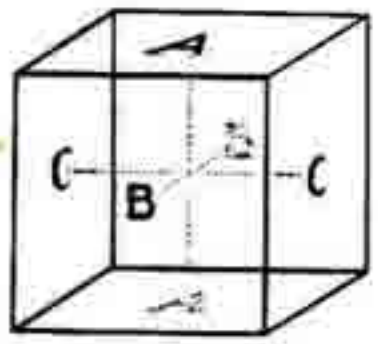


Fig. 40
The six wave field boundary planes

This curved universe consists of lenses and mirrors of light which reflect, bend, curve, concentrate and decentrate light into its countless forms. Any action anywhere is repeated everywhere by and through countless mirror planes of wave fields and the lenses of space. (Figs. 40, 41)

Concentrated spheres, such as the earth and sun, are surrounded by layers of light of equal pressures. Clouds float around the earth in them. The reason they float in curves parallel to the earth is because of these spherical equipotential planes of pressures which curve as the earth curves.



Fig. 41
The universe of projected motion

Curved pressures of light act as lenses to multiply and divide light radially. Light rays which pass through curved planes concentrate toward a point when projected through light lenses of space in the convex direction and decentrate when they pass through in the concave direction. (Figs. 42, 43)

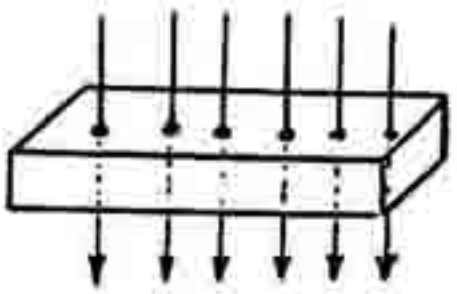


Fig. 42
Light rays are parallel when passing through planes of zero curvature

Gravity and radiativity are accounted for by this fact. Every object which falls toward the earth falls radially toward its center because of this fact. No two men who stand upright in balance with gravity stand parallel to each other. Lines drawn through the feet and head

of any two men standing in either hemisphere would form a cone with its base in the heavens and its apex at earth's center. Rain falling vertically from a cloud falls conically. The area of the base of the cone in the cloud is greater than its conical measurement on the earth (Figs. 44, 45). The electric potential of rain increases as it falls because of the multiplication of pressures by the lenses of light which surround the earth. For the same reason a man weighs less as he ascends a mountain and regains it when descending. Light lenses subtract from his potential by multiplying its volume while he ascends and multiplies it while he descends by subtracting from its volume.

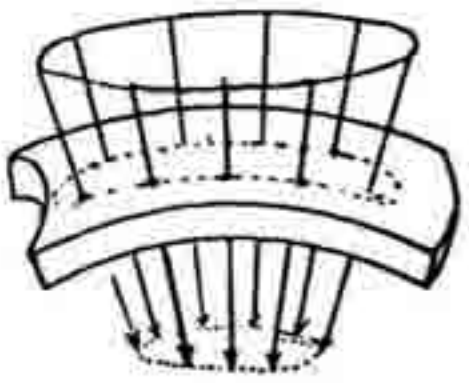


Fig. 43
Light rays are radial when projected through spherical planes



Fig. 44
No two vertical lines are parallel in this radial universe
AA static equator

Curvature of light wave axes, by contraction or expansion between planes of zero curvature is the cause of all pressures; all pattern; all of the attributes of matter, such as density, tenuity, melting point, brittleness, conductivity and countless other effects which are voided when curvature ceases in planes of rest in wave field boundaries, or in points of rest around which motion rotates spirally.

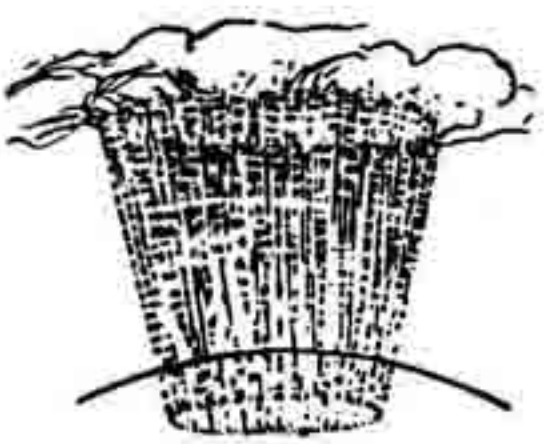


Fig. 45
Rain falling vertically forms cones

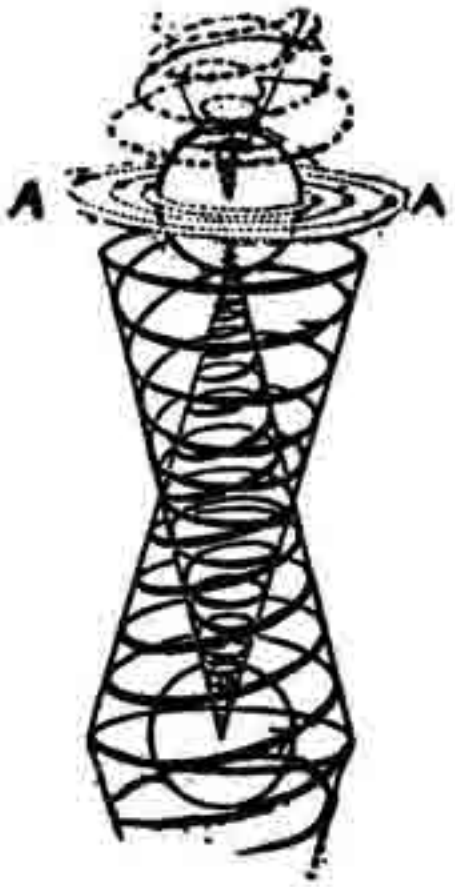


Fig. 50
AA Birth of electronic systems

are born where centripetal and centrifugal spirals meet. Matter registers the potential of the position of its birth. For that reason it floats in equipotential orbits appropriate to its position in its wave field, together with all units of its system. In the electric current, electronic systems are born where the familiar loops of force occur around a charged wire (Fig. 50). Figs. 51, 52, and 53 diagram electric systems forming at AA.

The spiral is an incompleted sphere just as crystal forms are incompleted cubes. Spirals and crystals have individuality which they lose by voidance in the oneness of spheres and cubes.



Fig. 51
Spiral Mates. Units of electric current

Individuality is given bodies for the purpose of manifesting separateness and multiplicity. Individuality, separateness and multiplicity are then voided in oneness.

Individuality in every creating thing is a moment to moment record of its unfoldment and refoldment. It is the fruit of cosmic desire for creative expression. It begins when the cycle begins, ends with its ending, and repeats itself in each cycle until the entire cycle of any expressed idea is voided in its completion.

Two-way sex-conditioned spirals are the consummate individuals of all Creation. They condition all bodies with the condition of their bodies. They unfold all idea from stillness of Mind-knowing into moving form of Mind-imagining and refold it into the stillness of Mind-knowing. They are the electric workers which fulfill desire of Mind by interweaving threads of light into patterned forms and recording those patterned forms in the still Light which centers every spiral pair, as the axis of a cone centers the cone.

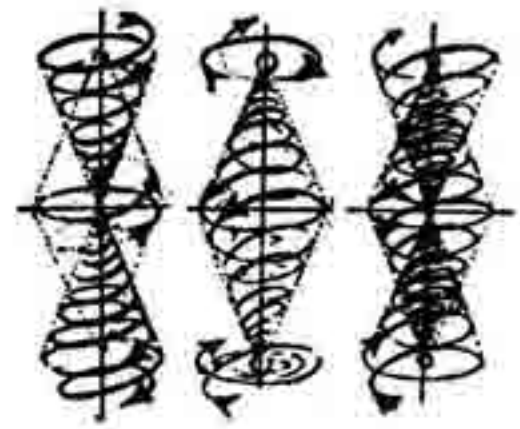


Fig. 52
Atomic systems forming

The one centering axis of both spirals is the shaft upon which the dynamic universe rotates.

All motion rotates and revolves upon still centering shafts, and all shafts are two-way extensions of points which lead to and through centers of spheres.

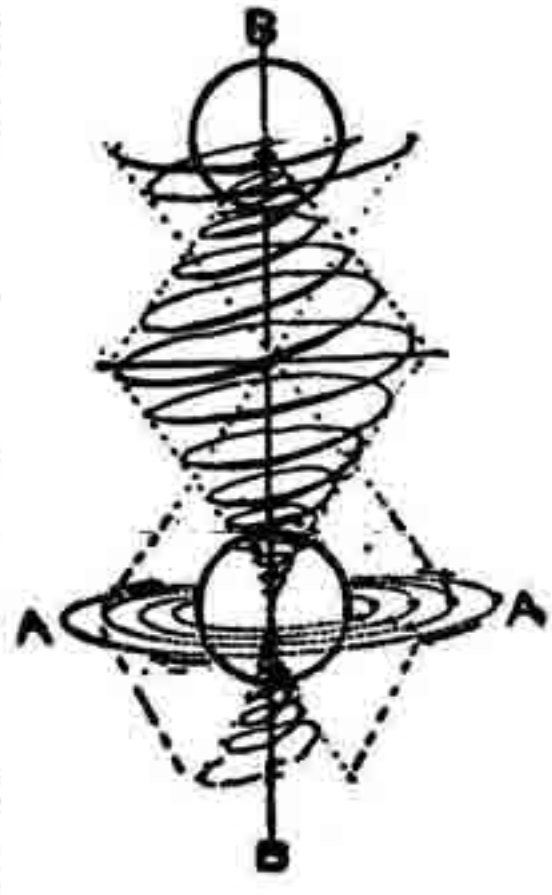


Fig. 53
AA Atomic systems forming
BB Wave shaft

The familiar wave line which records all effects of motion controls those effects. One can record that wave line but is not aware of the fact that it is the power extended by the Creator in the measure of desire for power.

The wave line is a record of the amount of energy borrowed from its static equator to express any mechanical process, such as the vibration of a harp string, the pulsations of an

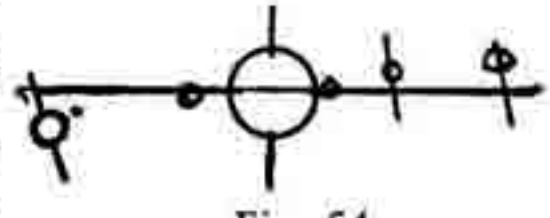


Fig. 54



Fig. 55
AB—The shaft of earth and moon

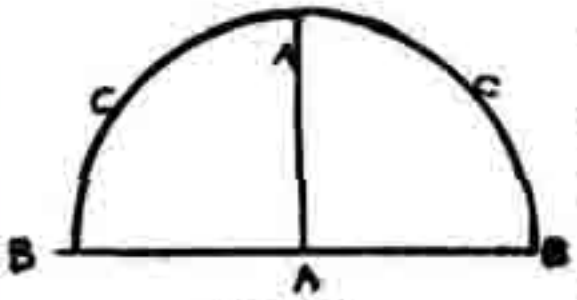


Fig. 56

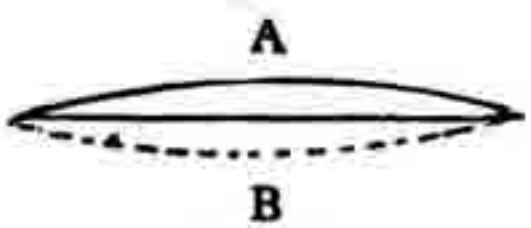


Fig. 57
A—The measure of energy borrowed. B—Its repetition

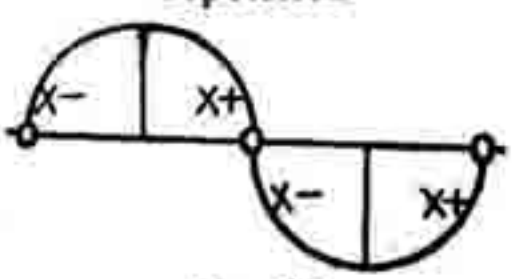


Fig. 58
A—is a credit. B—is an equal debit

engine, the cardiogram of one's heartbeat, or the pattern of an earthquake, as recorded by a seismograph. (Figs. 54, 55, 56, 57, 58)

The shaft of a wave is a line drawn through every point upon the surface of a wave-disturbed ocean in a vertical section, where water and sky meet. Around the still shaft of the wave all motion of the wave spirals to interweave the patterns and forms of desire.

All spiral forms must have intense individuality in order to express such amazing varieties of form and pattern. (Fig. 59)

The inside-out outside-in turnings of all creating forms is due to the gradual unfolding-refolding principle of Nature. This process is controlled by spiral pairs which are motivated by still centering shafts of magnetic Light. Opposed pairs of spirals gradually expand centrifugally to planes meeting at static equators to complete the unfolding half of a cycle. They then contract as the opposite of what they were to complete the other half. During the entire journey they continue without reversal of direction.

A clockwise spiral is always a clockwise spiral during its entire centripetal journey to its apex and its centrifugal journey to its base.

The opposed pair which rotate upon the same shaft are anticlockwise, *for both are projected through each other.* (Fig. 60)

The characteristic unfolding-refolding, inside-out outside-in principle of Nature causes the integration of matter at poles and disintegration at equators. Matter integrates by the contraction of one pair of spirals around the shafts which wind it into spheres by the way of their poles, and disintegrates it by the expansion of the other pair which unwind it by way of equators.

The pair of spirals which wind light waves into spheres continue that winding until holes are bored through spheres and rings are formed, aided by the centrifugal force exerted by the expansion of the opposing spirals.

Rings are the "death" half of the cycles of spheres. Rings recondense around points in space and rewind as spheres. The majestic ring nebula in Lyra (Fig. 61) is an outstanding example of the disintegration process of Nature. The ring exemplifies the "death" half of the cycle and the newly formed sun at its center the "life" half. A new body has been born out of the old one as it expanded into the heavens.

The heavens abound with new bodies appear-

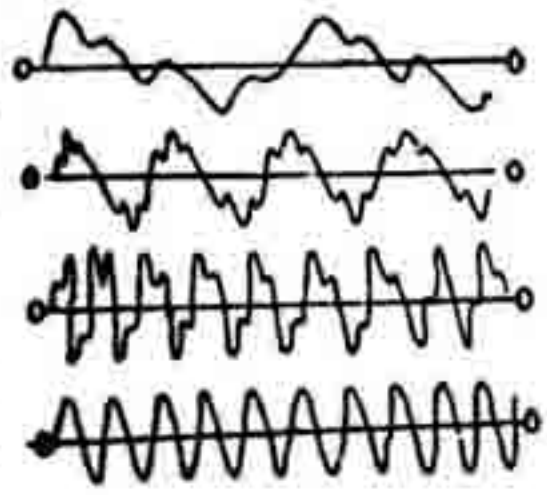


Fig. 59
Various patterns of wave shafts recording borrowed energy

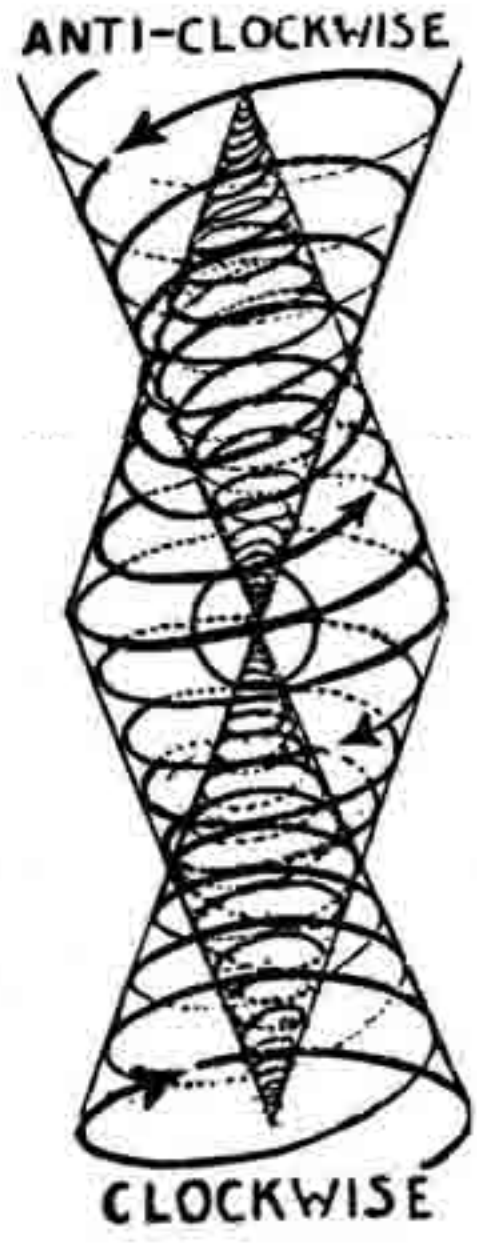


Fig. 60
Directions of spiral motion never reverses



Fig. 61
Lyra ring nebula

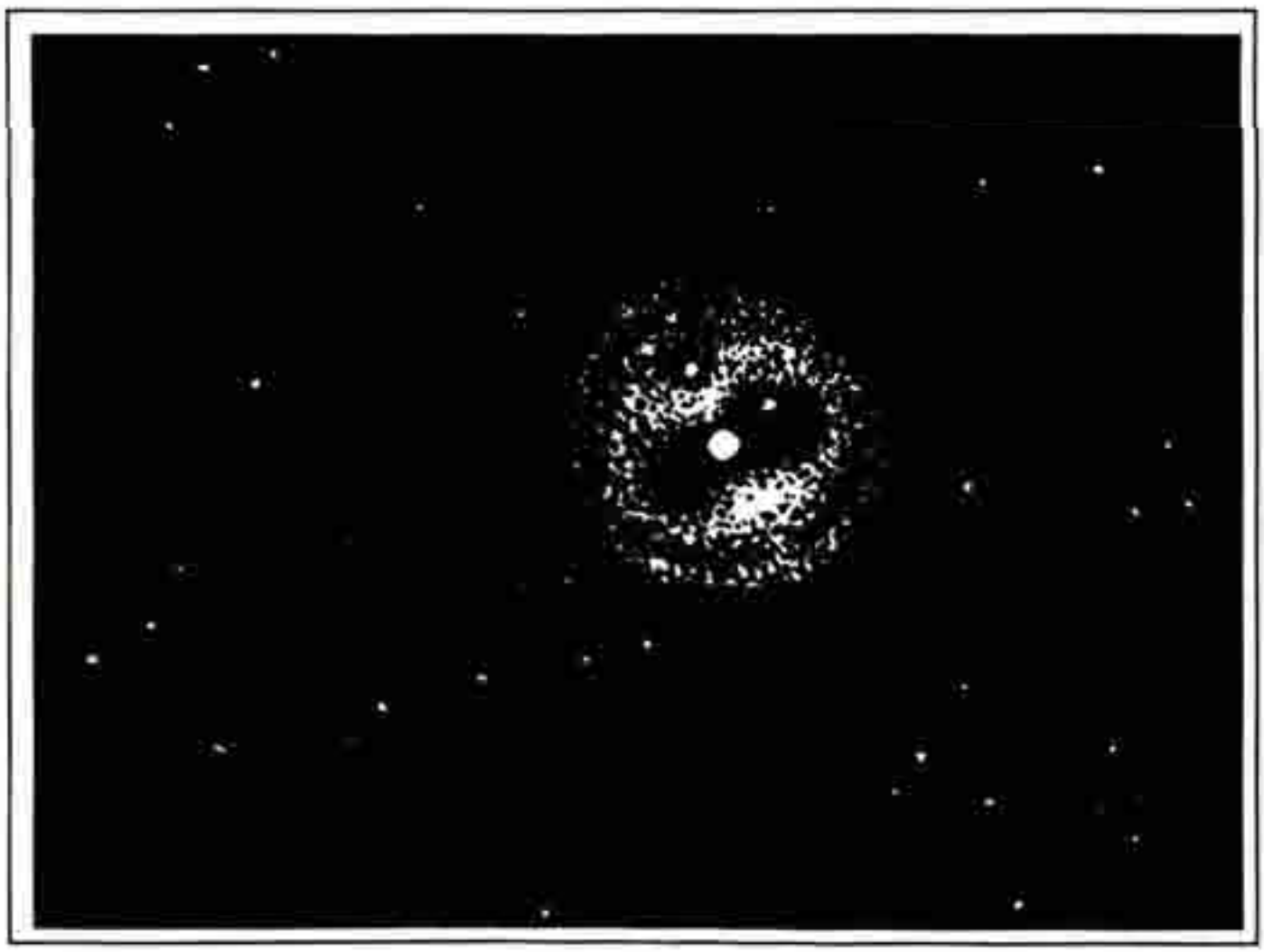


Fig. 62
Owl nebula

ing from old ones which have disappeared into another form. The Owl Nebula demonstrates this principle by two rings and two stars reborn from them. (Fig. 62)

The rings of Saturn will become moons, just as its other rings have become its several other moons. Our own moon was born from a ring from earth as it expands its bulk by absorbing its oceans, and accelerates its rotation as all of the outer planets have done.

(Fig. 63)

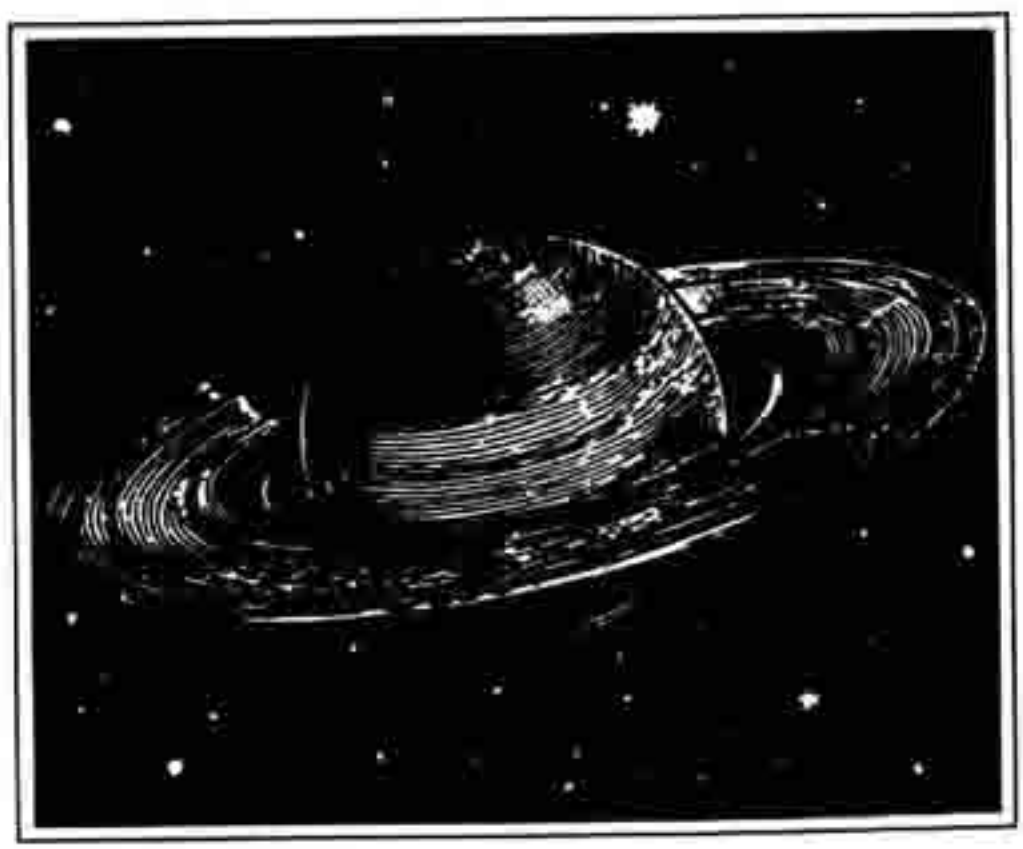


Fig. 63

Jupiter is even now developing belts which will be thrown off as rings, to become moons. These moons will become comets and eventually plunge into the sun as all things in this solar system likewise do.

Fig. 64 illustrates the unwinding process by means of which moons free themselves from the bindings of their mother shaft to again seek revolution around the shaft of their beginning in the sun.

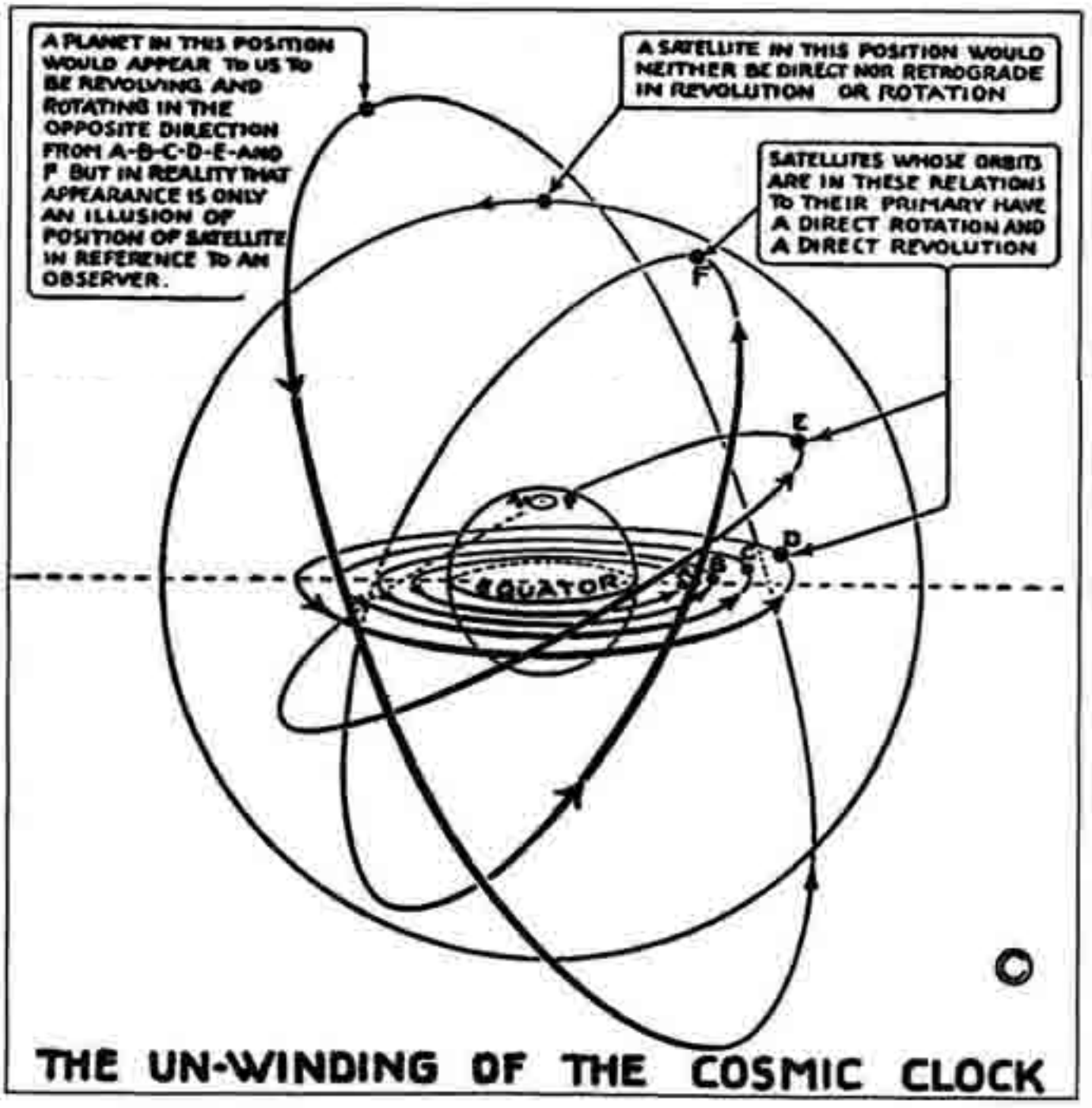


Fig. 64

Disintegration of suns and planets by radiation is accompanied by flattening at their poles. Spheres come into being by prolating and go out by oblating. Ever increasing speed of rotation around shafts is the cause of this phenomenon. Inner planets rotate very slowly upon their own shafts because they are so close to their mother shaft in the sun, but they revolve very swiftly in their orbits around the sun. (Fig. 65)

Mercury, our own moon, and Phobos, the inner moon of Mars, are so close to their mother shaft that they are obliged to revolve swiftly, with the same face always toward their primary. The outer planets have so far broken away from the influence of their mother shaft in the sun that their years have materially lengthened, their days conspicuously shortened, and their faces are constantly changing in relation to the sun.

Cyclones, waterspouts and tornadoes develop on our earth when spirals tighten around their shafts, for the



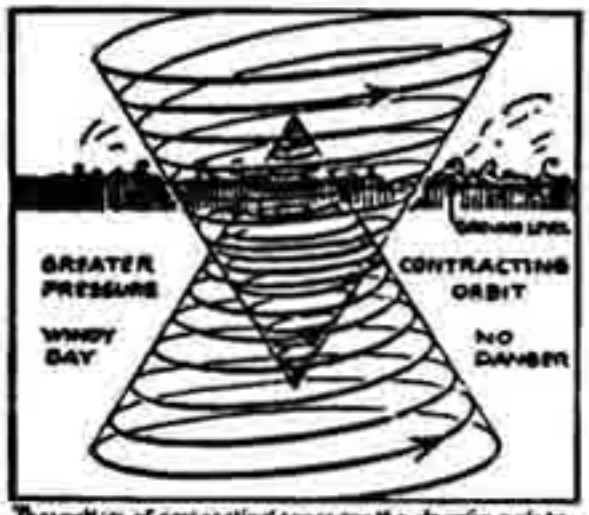
Fig. 38
As poles flatten equators lengthen

THE TORNADO PRINCIPLE

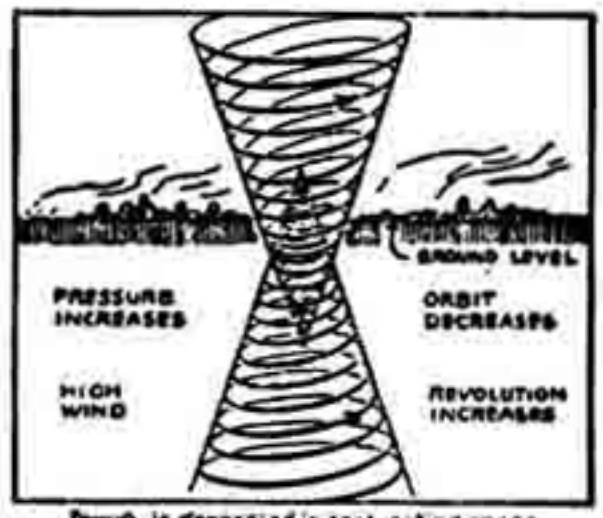


A calm day of normal low wind pressure.
Earth surface cuts opposing cones near expanded base.

OPPOSED ELECTRIC FORCES FAR EXTENDED FROM MAGNETIC STILLNESS

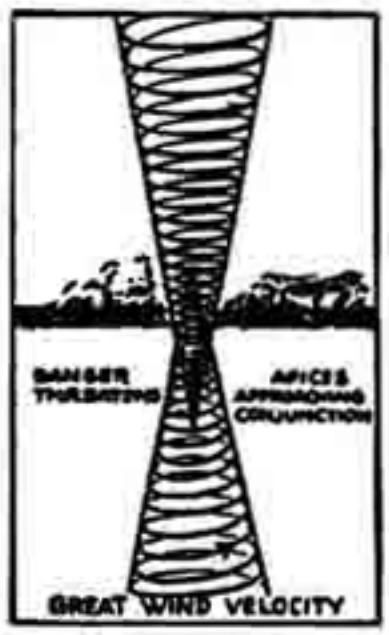


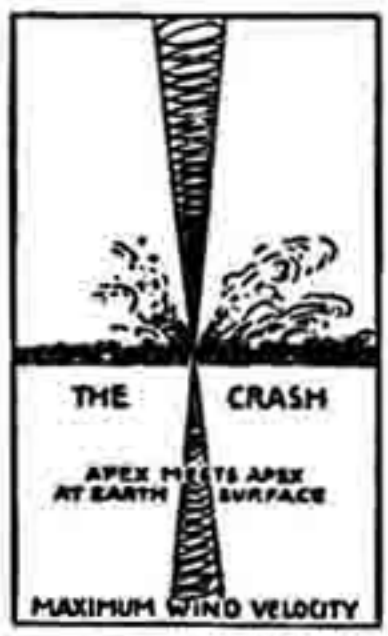
The vortices of contracting cones are the danger points.



Energy is generated in contracting cones.

POWER INCREASES AS SPEED MULTIPLIES BY CONTRACTION OF ORBIT







POWER INCREASES IN THE DIRECTION OF MAGNETIC CENTERS AND DECREASES TOWARD MAGNETIC PLANES

Fig. 66

more they thus contract, the greater their speed. When spirals are so wide at their bases that their angles to the earth's surface are negligible, there is calmness and peace; but when they contract to thin pencils which furiously speed around centering shafts of magnetic

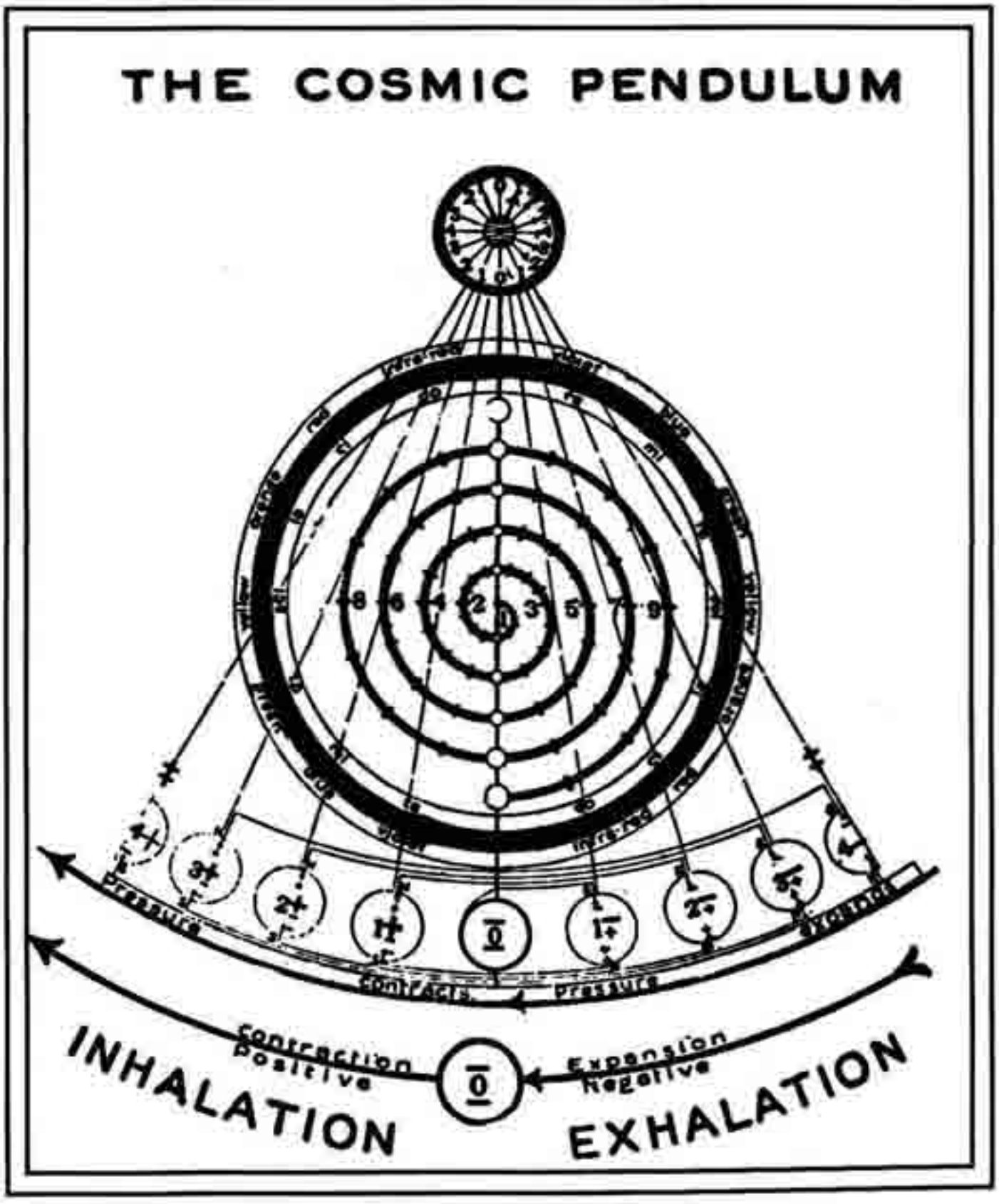


Fig. 67

stillness at ninety degrees to the earth's surface, they then do inestimable damage. (Fig. 66)

THE UNIVERSAL OCTAVE

The heartbeat of the universe, starting from zero of rest, spirals from its minimum to its maximum and back again to zero, in four pairs of opposite actions and reactions. These four pairs of opposite electric interweavers constitute the universal spiral octave wave by means of which the dynamic universe of *effect* rises from the static universe of *cause*. (Fig. 67)

The octave wave formula which governs all motion, and its birth position in the universal wave, is as follows in Fig. 68:

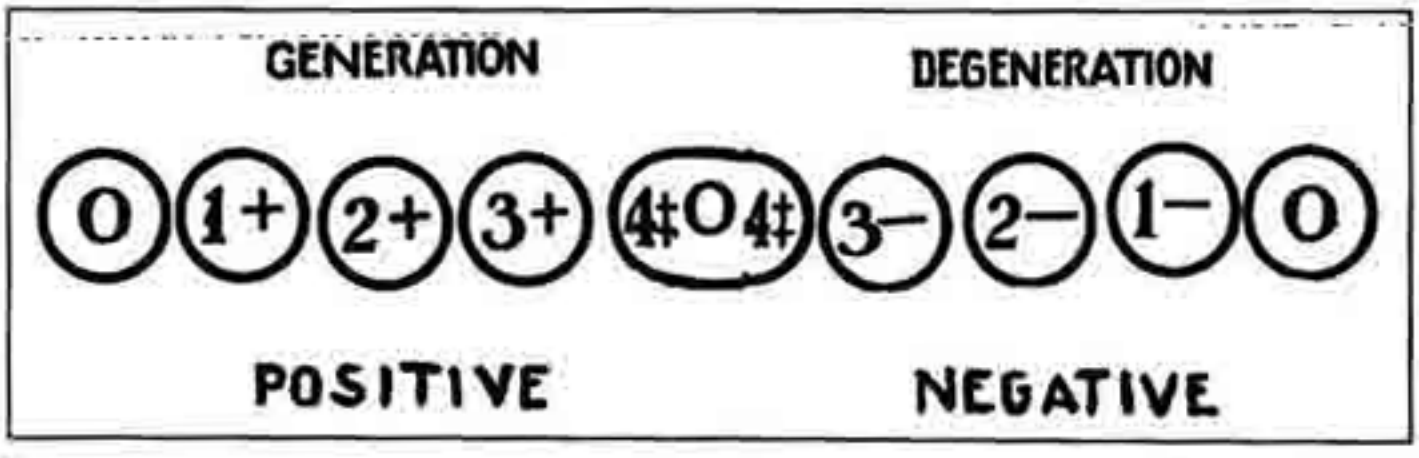


Fig. 68
Two-way journey from zero—through zero—to zero

Zero to four means the centripetal direction toward the apex of the spiral, which leads to higher potential, density, gravity and the white heat of incandescence. Four to zero means the centrifugal direction toward the base of

the spiral which leads to lower pressure, lower potential, vacuity, radiativity and the black cold of space. Each of these is half of a cycle.

The reason an octave cannot be counted from one to eight, instead of from one to four, is because each of the pressures—which bear the relations of one to four positive in the octave—is a credit pressure, which has its equal opposite debit pressure in one to four negative.

The elements of matter, born on the spiral pairs of opposites as tones, have the same relation as tones of music have to the octave wave.

All wave motion is expressed in eight tones—four pairs of opposites. The middle pair is seemingly one. The octave is usually expressed as seven for this reason. An octave is a series of orderly harmonic tones. Tones are multiplied and divided pressures of light, spaced rhythmically with mathematical precision upon each octave wave of motion. The law which applies to one effect of motion applies to all, whether sound wave, electric current, color spectrum or octaves of elements of matter.

No state of motion has permanence or even duration. Everything is forever in a state of transition, changing its position in its wave by either multiplying or dividing its vibration frequencies to change its conditioning.

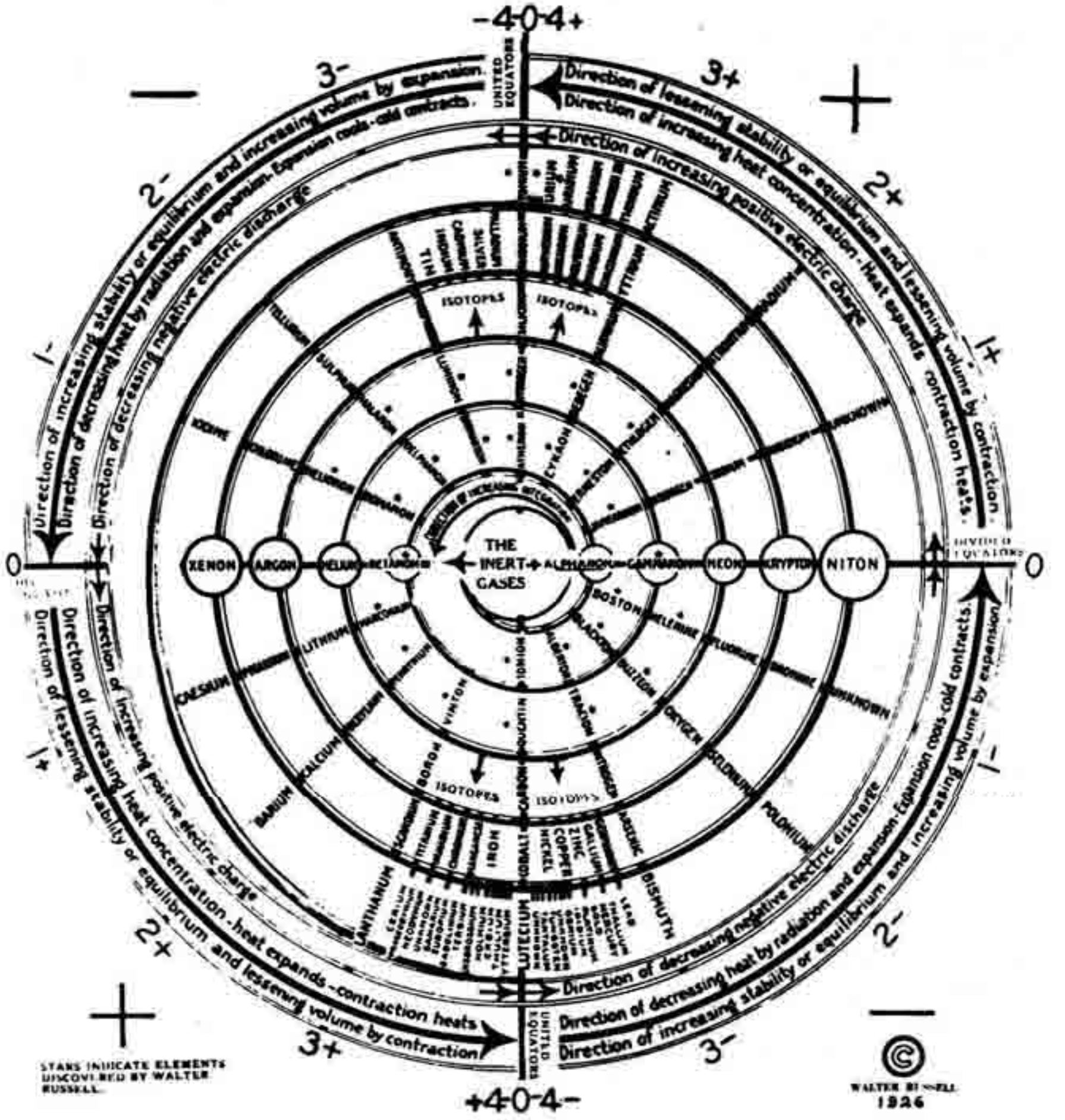
The basis of all octaves is the keynote of rest from which the octave springs to express the idea which lies

within the magnetic stillness of that keynote. The fulcrum of the wave of musical octaves is its keynote from which all tonal changes in the octave are mathematically calculated in wave frequencies and volume. That keynote is always in one's consciousness whether the note is being sounded or not. It is the balance of its octave. All tones are out of balance with it at all times and forever desire balance. No state of motion can evade the keynote of rest from which it sprang, nor can it be separated from it electrically in matter—or consciously in Mind.

No matter what instrument produces octave tones, its frequencies and other dimensions must be in the orderliness demanded by the opening and closing spiral pairs which control those tones by conditioning them. Likewise, no matter what the instrument, whether larynx of man, string of violin, carbon wave field or color spectrum, its sole motivating power for producing change of dimension for the purpose of producing change of tone is electric pressure directed by desire and borrowed from the keynote of the octave's stillness. Furthermore, all power thus borrowed for one expression in any octave tone must be in balance with the opposite of that tone within which those borrowings have been debited.

This outstanding fact of natural law must be borne in mind in considering those principles as applied to the mechanics of the universal wave which produces the

Periodicity is a characteristic of all phenomena of nature



The nine octaves of the elements of matter manifest the polarization principle for producing dynamic action by extending two equators from a fulcrum point of rest. These two equators arise by gyroscopic action, multiplied centripetally, in four concentrative efforts to an amplitude plane which is 90 degrees from the zero plane of the inert gases. They then descend in four decentrative, depolarizing stages to disappear in their inert gases and again reappear from them in endless cycles throughout eternity. Thus do all bodies appear and disappear—to again reappear—forever.

Fig. 69

One of the two completed Mendeleef tables of the elements which Walter Russell gave to the world of science in 1926.

The Russell Periodic Table of the Elements

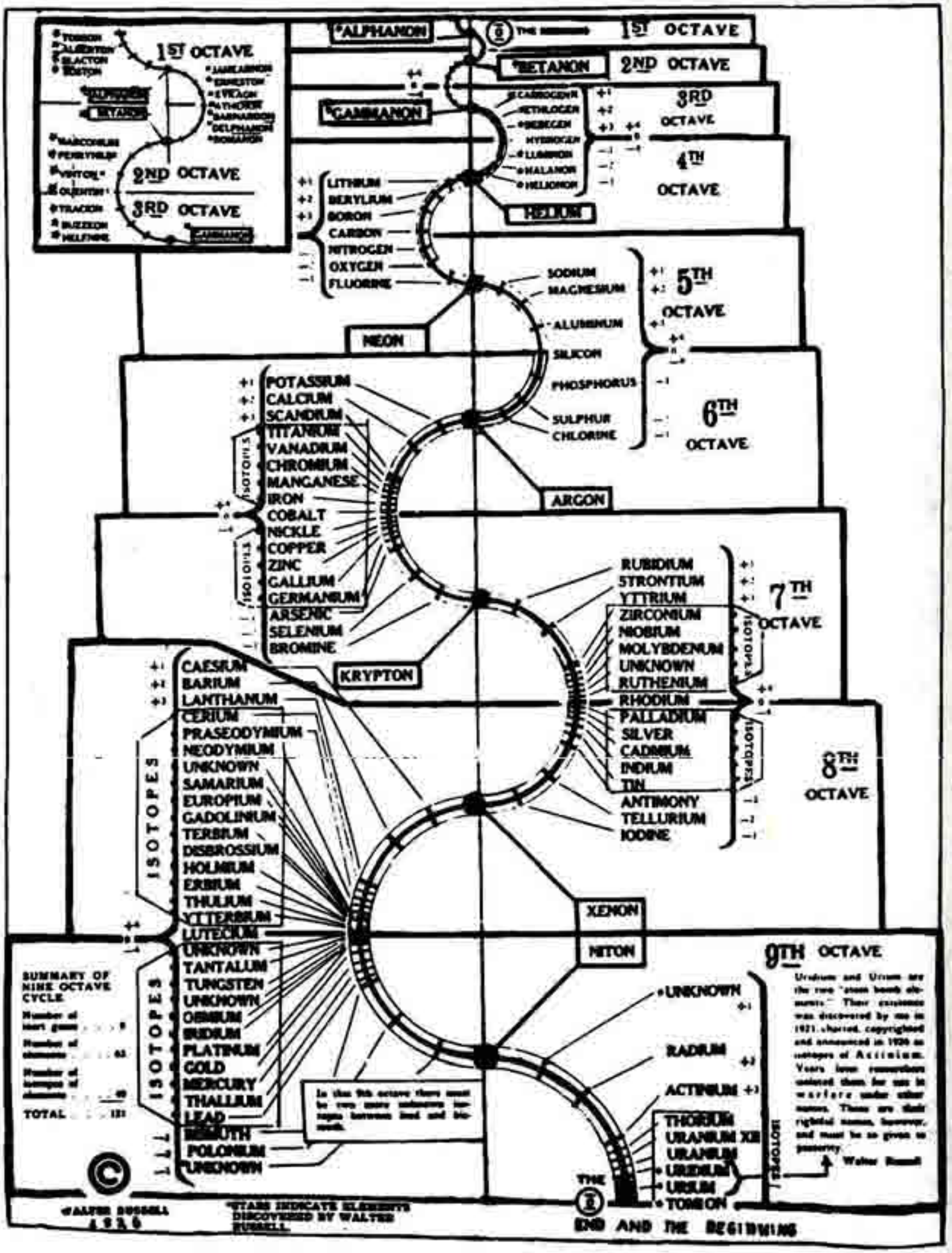


Fig. 70

The other of the two charts given to the world by Walter Russell in 1926.[4]

octave wave tones of the elements of matter with such precision that any effect produced by any of them in combination, or separately, will produce that same effect always.

THE ELEMENTS OF MATTER

An invariable characteristic of Nature is to express life-death cycles of any idea, in nine lesser interweaving cycles enfolded in the one. When we think of man as an

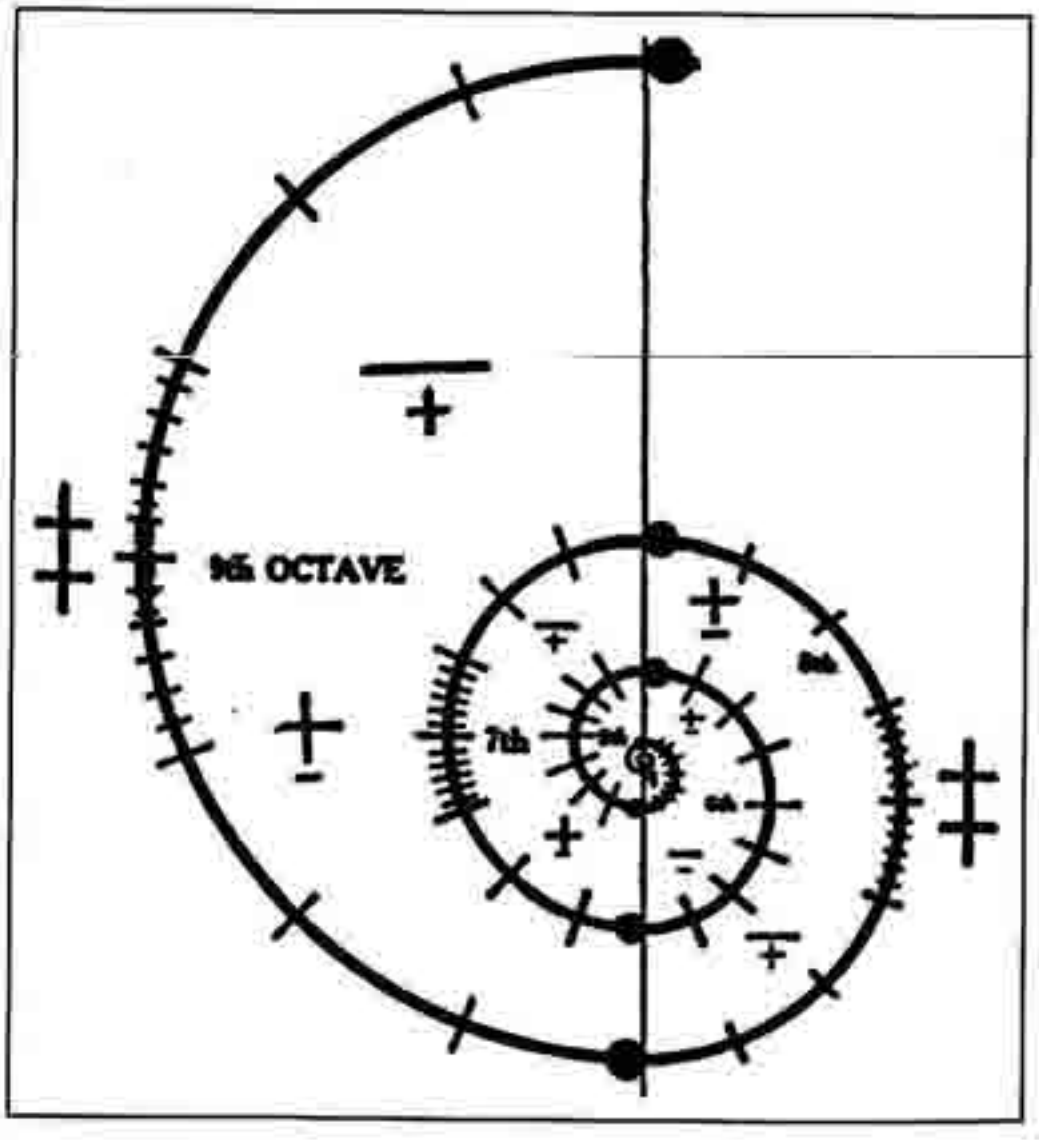


Fig. 71
The universal nine octave cycle

idea, we think of him as grown up to fullness of middle age. Until then, we think of generating man as infant, child and youth. Following his generating cycles come the degenerative ones in which he gradually repays all of his borrowings from his zero of rest and returns to that zero to again borrow power to re-express the idea of man. (Fig. 71)

This process of Nature, which expresses its cycles of idea in nine lesser cycles, is conspicuously present in the life-death cycles of the elements of matter. Carbon alone expresses the idea of matter. All the nine octaves of the elements are stages of unfoldment and refoldment of carbon. The first four and a half octaves lead to the maturity of carbon by the generative contraction of gravity. It is the hardest of all of the other stages of its transition, having the highest melting point. The last four and a half octaves lead from maturity through old age to disappearance at the end of the nine octave cycle by the radiative expansion of vacuity. (Fig. 70)

Genero-activity begins at the birth of carbon in the first octave with genero-active, inner explosive speed of light which is 186,400 miles per second. It ends with an equal radioactive, outer explosive speed. This speed is the limit at which motion can reproduce itself in curved wave fields before reaching zero where motion and curvature cease.

Carbon fulfills the plan of the Creator in His desire to

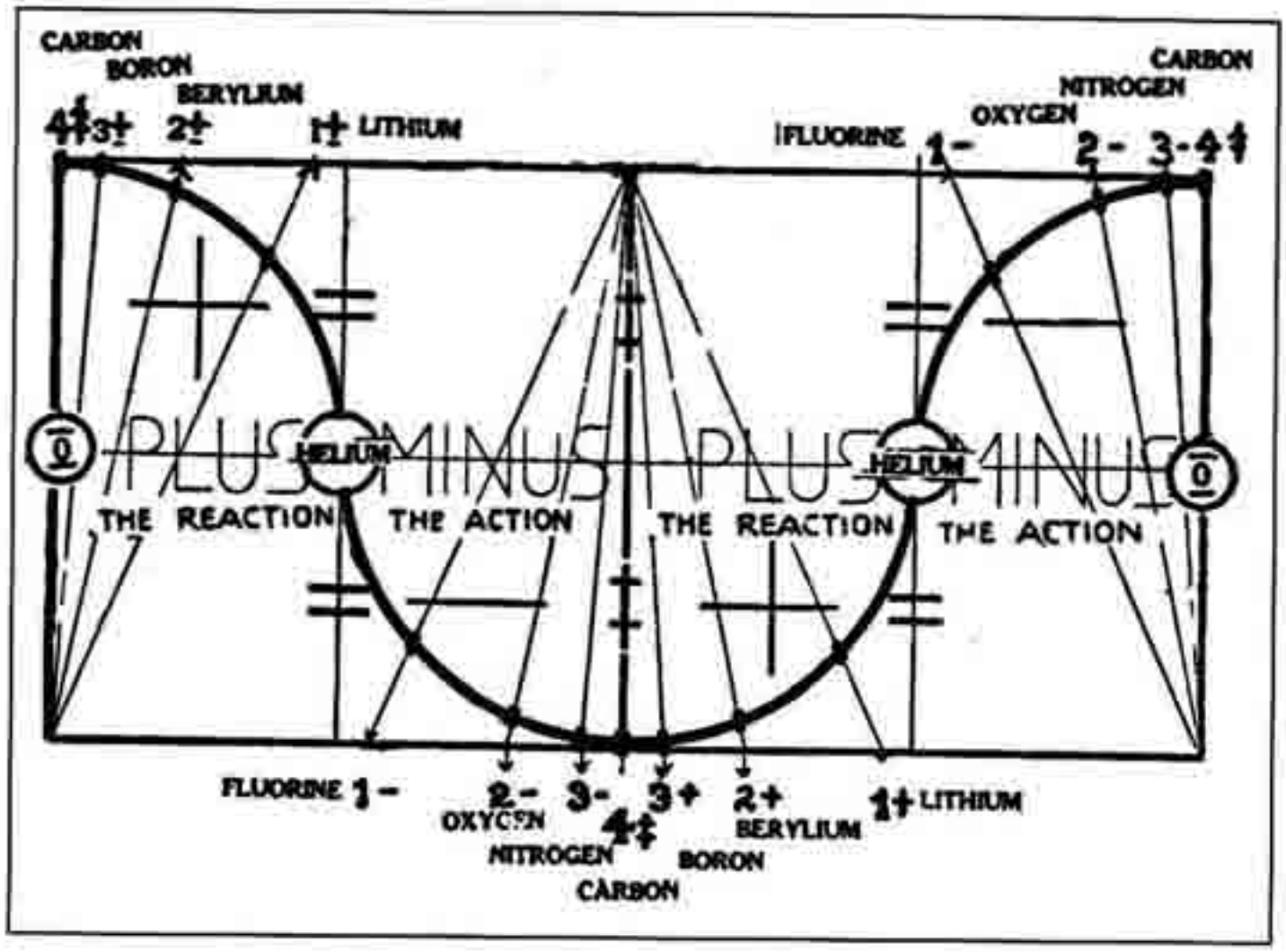


Fig. 72
Octave pressure relations

create but one form: the cube-sphere. Carbon alone crystallizes in true cube, with all of the qualities of the true cube and sphere fully exemplified. All other elements which crystallize as cubes are octave extensions of carbon. All such extensions occupy the four-zero-four position of wave amplitude.

In carbon are all of the elements of its previous stages, just as in man are all of the actions and reactions of his previous stages. Hydrogen is a one octave younger prototype of carbon. It forms on the wave amplitude at four-zero-four just as carbon forms at four-zero-four one octave ahead. In hydrogen is a

whole octave of elemental tones. Several of these have been recently discovered and wrongly named isotopes. Isotopes are split tones such as those which a violinist could produce between full tones.

An amazing thing happens at this point in the unfolding of carbon's life record. Hydrogen's melting point is 259 degrees below zero centigrade and in one octave the winding up process of nature acts like a whiplash at its halfway position where genero-activity and radioactivity meet as equals. This effect tightens the winding of carbon into such a dense substance that the melting point jumps to 3600 degrees above zero in that one octave.

Nature immediately counterbalances this accelerative action by dropping nitrogen, the next element beyond carbon, into a gas which melts at 210 degrees below zero centigrade. It does not recover from the gaseous condition during the rest of its octave.

The cosmic seed of the carbon octave is helium.

Silicon is one octave older than carbon. The melting point of silicon drops to less than one half of its younger stage: 1420 degrees.

The cosmic seed of the silicon octave is neon.

When carbon becomes still another octave older at the four-zero-four position of cobalt in the sixth octave, it divides its full tone into ten split isotope tones; five on either side. (Fig. 70)

Carbon at this stage has lost much of its vitality and changes its character by thus dividing it into cobalt isotopes. Its melting point has dropped to 1480 degrees, which is slightly higher than the silicon stage of carbon. Because of sharing that position with ten others it has lost much of its true cube-sphere quality of balance which the four-zero-four position manifests.

The evidence of that is the metallic quality of cobalt which would be impossible in the true cube-sphere position of four-zero-four in the octave wave.

The four-zero-four position is one of balance between the pairs of metallic opposites such as iron and nickel, manganese and copper, chromium and zinc or sodium and chlorine. When any of these pairs lose their metallic quality, such as iron and oxygen in iron rust, or sodium and chlorine in sodium-chloride, they find both rest and balance in the stony quality of the salts; they crystallize in the cubic system if they are equal or near equal opposite pairs. Sodium-chloride is a good example. One can see its approximately true cubes in sodium-chloride (ordinary table salt) or in the distorted cube crystals of sodium-iodide.

The four-zero-four position in the octaves of the elements is the position of rest where any action must end its half cycle and begin its other half. It comes to a point of rest before returning to a point of rest, as all actions and reactions in nature do.

At one octave of still further aging, carbon becomes rhodium and again climbs to its amplitude position at four-zero-four by five efforts and descends by five more. Rhodium is more vital than cobalt, for its melting point is 1950 degrees. (Fig. 70)

The cosmic seed of the rhodium octave is krypton.

Great vitality is often evidenced in Nature's creations

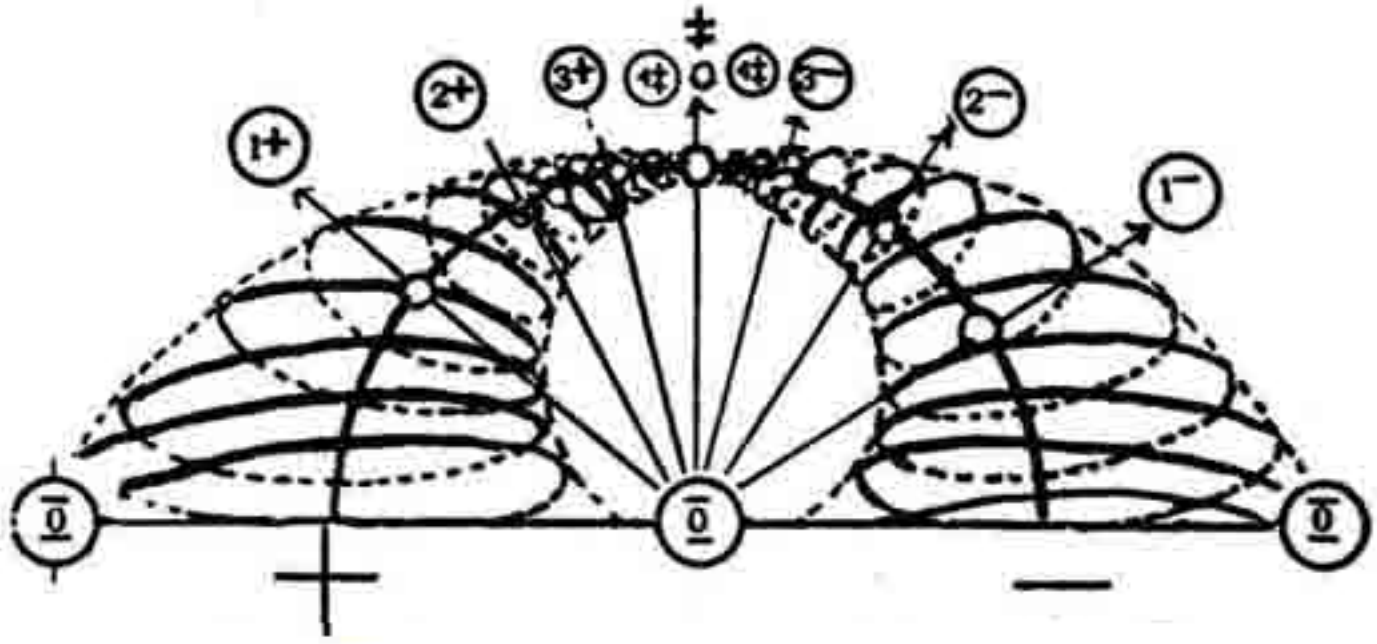


Fig. 73
Cycle of the elements from rest to rest

after they have fully matured. The radioactive death principle is as vital in disintegrating the body as the genero-active principle is in integrating it. That vitality is enhanced by the opposition of the genero-active resistance set up against it. Such strong, vital metals as silver, nickel, copper, tantalum, tungsten, osmium, platinum and gold belong to the aging half cycles of carbon.

Tantalum is a radioactive metal which becomes so dense because of opposition between the two electric

conditioners that its melting point reaches 3400 degrees centigrade, or within two hundred degrees of carbon. Osmium follows with a melting point of 2700 degrees and platinum at 1755 degrees. In this octave, the violent drop from carbon's melting point to nitrogen's melting point at minus 210 is balanced by this corresponding genero-active reaction.

In the next octave of carbon's aging, the radioactive death principle becomes more evident in lutecium. After reaching its three position in the positive half of its octave, it arrives at its balance position of four-zero-four only after making thirteen efforts, as evidenced by thirteen isotopes including unknowns.[5] These are balanced by thirteen in the negative half cycle. Among these thirteen is the vital tungsten, a negative metal of great commercial value. By bombarding this metal with a sufficiently high current to cause it to disintegrate, it will discharge its seed of inert cosmic gases just as an oak tree will discharge its cosmic seed in acorns.

The cosmic seed of the lutecium octave is xenon.

The cosmic seed of carbon's last octave of disappearance arises from the inert gas niton.[6] Octaves unfold from their past recorded seed and they must have a seed into which their present record can refold. That principle is absolute in Nature.

Radium and actinium evidence the going-to-seed process of all completed cycles of growing things in a

strong measure. One can see this process taking place in radium without resorting to the electrocution process referred to as applied to tungsten.

A small telescopic instrument, the spinthariscope, contains a needle upon which a microscopic portion of radium has been placed in front of a fluorescent screen. By looking through its lenses in the dark, one can see the shedding of the cosmic seed of the slowly dying carbon in its radium stage as the rays of those cosmic seeds bombard the screen. The effect is beautiful, like looking into the heavens on a starry night with all of its stars twinkling into appearance and disappearance as fireflies twinkle in the meadow on a dark night.

Carbon never comes within perception at tomium, but its efforts to reach tomium are evidenced in the uranium group of isotopes, of which there are fifteen before tomium is reached. Out of this group several have been found and made use of, especially those from which the atom bomb has been produced. (Fig. 70)

Radioactivity has so nearly reached its maximum at this point that the speed of the cosmic seed shed by these isotopes has been measured at 180,000 miles per second, which is approximately the speed of light nearing its ending point at tomion where the octave again begins at alphanon.

THE INERT GASES

The octaves of the elements of matter "grow" from seed, just as all things grow from seed. From the moment the elements unfold from their seed, they are in a constant state of transition, from the beginning of their cycle to the end. Elements are not fixed created *things*. They are pressure *conditions* of light waves. Those conditions of light pressures are constantly changing from infancy to old age in the elements of matter just as they are in the animal kingdom. The inert gases are cosmic elements which will not combine with any other elements. They constitute the recording system of this creating universe. They surround the zero from which motion springs and to which it returns. They represent minimum motion in the wave, just as amplitudes represent maximum motion. They are the seeds of the octaves of matter, and each octave has a different seed just as different trees have different seeds.

Elements are waves, and waves disappear and reappear. God's recording system does not allow any creating thing to disappear without recording the actions and reactions of its stages of appearance. All states of motion are recorded in the inert gases. In the inert gases are the souls of their bodily manifestations in the universe of motion. In them is desire for expression and the patterned form of that desire.

The cosmic inert gases fill all space between the stars of heaven. They insulate states of motion from each other by their balancing zero. They bring all motion into being through the will of the Creator, true to the pattern of desire. They are the source of balancing cosmic rays which interchange between zero and matter. They vitalize matter with the omnipotence of creative desire which lies within the zero of these cosmic rays.

There are nine cosmic gases; the first and the last being one. Alphanon begins the cycle and ends it. There is no beginning and no ending.

The list of cosmic gases follows: alphanon, betanon, gammanon, *helium, *neon, *argon, *krypton, *zenon, and *niton.[6]

SPECTRUM ANALYSIS

The known octaves which lie within the range of perception are five and one half. These begin with the third, or hydrogen octave, and end with the uranium group which are isotopes of actinium and tomium in the last octave.[7]

* Indicates those known.

The invisible octaves of finely divided matter of space are three and one half in number. These octaves are beyond our range of perception, but they are not beyond our knowing.[8]

Light is the universal language. Through spectrum analysis of light waves man has been able to analyze and recognize each element when in its incandescent stage.

By means of the spectroscope, he has been enabled to divide light rays through its prisms into the component parts which make up the life history of each stage of its two-way cycle.

Each element tells the story of its entire previous "incarnations" in other octaves, since its beginning. Any line in one octave is repeated in the next, but shifted in position because of the changing pressures of each succeeding octave.

The spectrum of hydrogen is preponderantly red. A bright red line indicates its present octave. Other red lines tell its past history in lower octaves.

The simple history of hydrogen, as compared to the complex spectrum of iron, is like the history of an obscure youth as compared to that of Napoleon.

In the spectrum analysis of iron, the lines which belong to iron and those which tell its recent and remote history can be seen at a glance. These lines also indicate the relative ability of the iron atom to charge or discharge.

Wave length 7181.8 is immediately recognizable as belonging to iron in its present octave; 6916.8 is recent history and 6944.8 is extremely remote history. Herein follows a partial list of lines whose wave lengths belong to iron or to its immediate mid-tone associates, and also other lists indicating its recent and its more remote history.[9]

BELONGING TO IRON	RECENT HISTORY	REMOTE HISTORY
7181.8	6916.8	6944.8
6495.1	6827.8	6678.1
6380.9	6335.4	6270.4
5905.8	6230.9	6232.8
5862.5	6157.9	6137.8
5859.8	6102.3	6027.2
5816.5	6003.2	6024.2
5658.9	5930.2	5983.1
5555.0	5701.7	5934.8
5041.9	5686.6	5662.7

The visible and invisible spectrum is divided into several thousand lines. Each line is different in its shade of color and in its plane. Each line proves that this universe of varying motion is a universe of varying pressures.

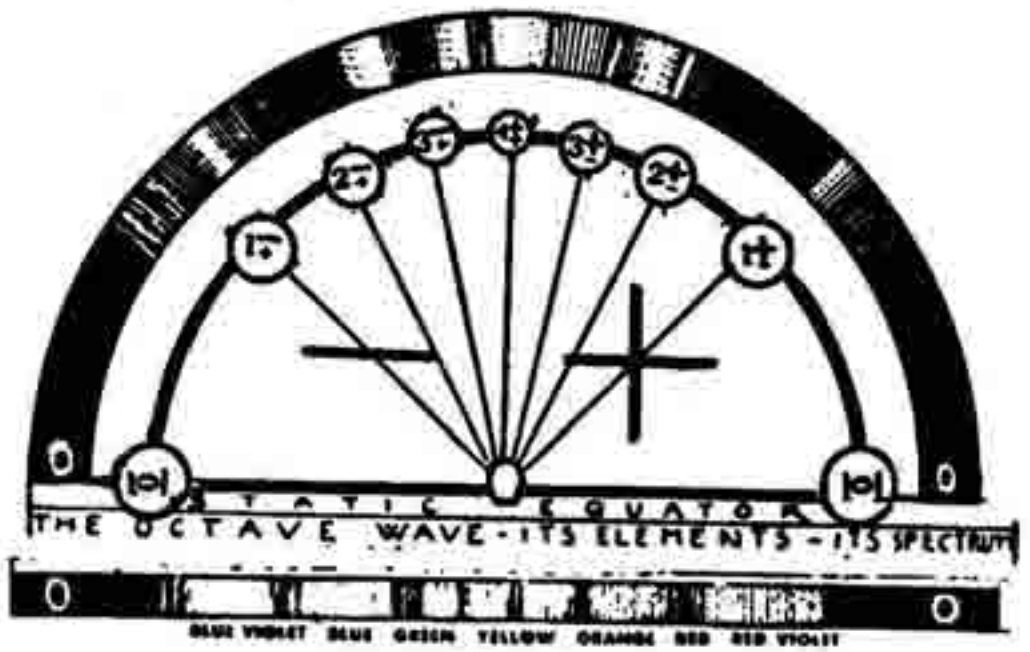


Fig. 74
Relation of tones of the elements to tones of the spectrum

ATOMIC STRUCTURE

The elements of matter are not different substances or different things. They are different pressure conditions of light waves. The light units of the elements are all alike but are differently conditioned by the electric pressures exerted upon them during the inward or outward spiral journey from zero to zero.

The unanswered mystery of how the elements become mathematically precise octave tones, just as musical tones or color tones of the spectrum are mathematically precise in vibration orderliness, lies in the wave field gyroscopic principle.

Together the eight elements of an octave form two halves of one whole cycle of tones which ascend from zero to the four-zero-four position of amplitude and then descend again to zero to begin anew.

This spiral journey contracts into greater pressures as it approaches wave field amplitude positions at spiral apices, and expands into lower ones on the return journey to spiral bases.

That two-way spiral journey of each half cycle extends between six mirrors of still Light which compose the wave field, and winds around a still shaft which

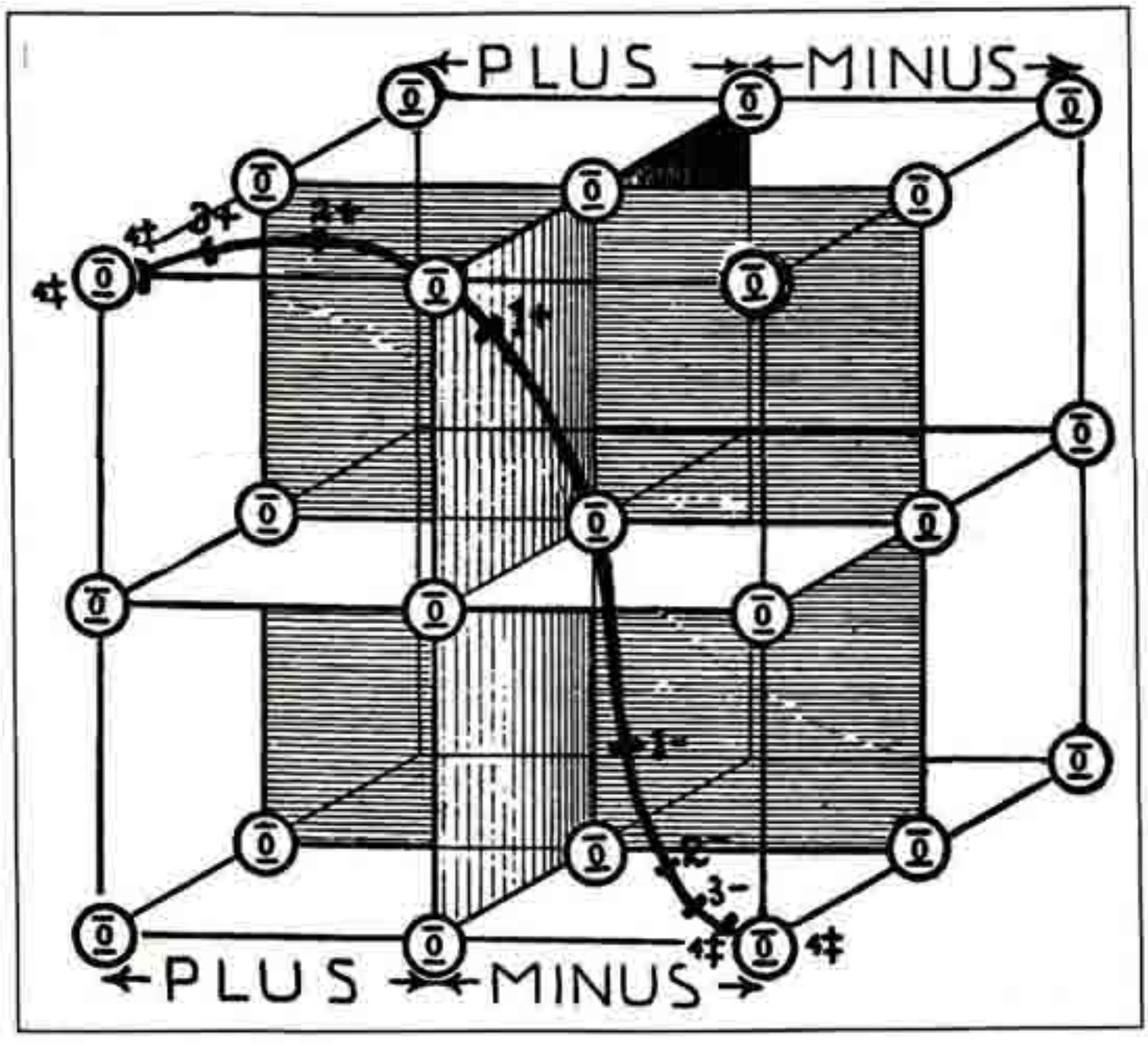


Fig. 75
Locations of elements on wave fields are determined by wave-field mirrors

centers the spiral. Three of these mirrors are the mirrors of action and three are the mirrors of reaction. (Fig. 75)

The three of action are the inner intersection planes of the cube and the three of reaction are the outer boundary planes of the wave field.

All of these planes of the wave field are of zero curvature, but the spiral universe which is forming within those planes is curved. Curved planes of light act as two-way lenses which bend light to focal points and extend it from those focal points radially.

As the two-way spirals of forming matter extend from the wave field center in opposite directions toward wave field intersections, the six mirror planes of still light focus three points of still light upon the still shaft of each half cycle. Centers are formed at these focal points which become the one, two, three positive and negative elements of matter by rotating gyroscopically upon the wheels of light which act as equators for those borning tones.

Multiplying and dividing pressures determine the density and volume of each succeeding element. The color spectrum records these pressures as the complete history of every element from octave to octave of the whole nine octave cycle of the elements.

Multiplying pressures of the spiral also affect the curvature of its light lenses to such an extent that the focusing positions change their mathematical ratios in confor-

mity with the acceleration of gravity and the deceleration of radiation.

The positions of focal centers of gyroscopic wheels upon the wave shaft are thus affected as diagrammed in Fig. 76 and Fig. 72. Each element is the square of

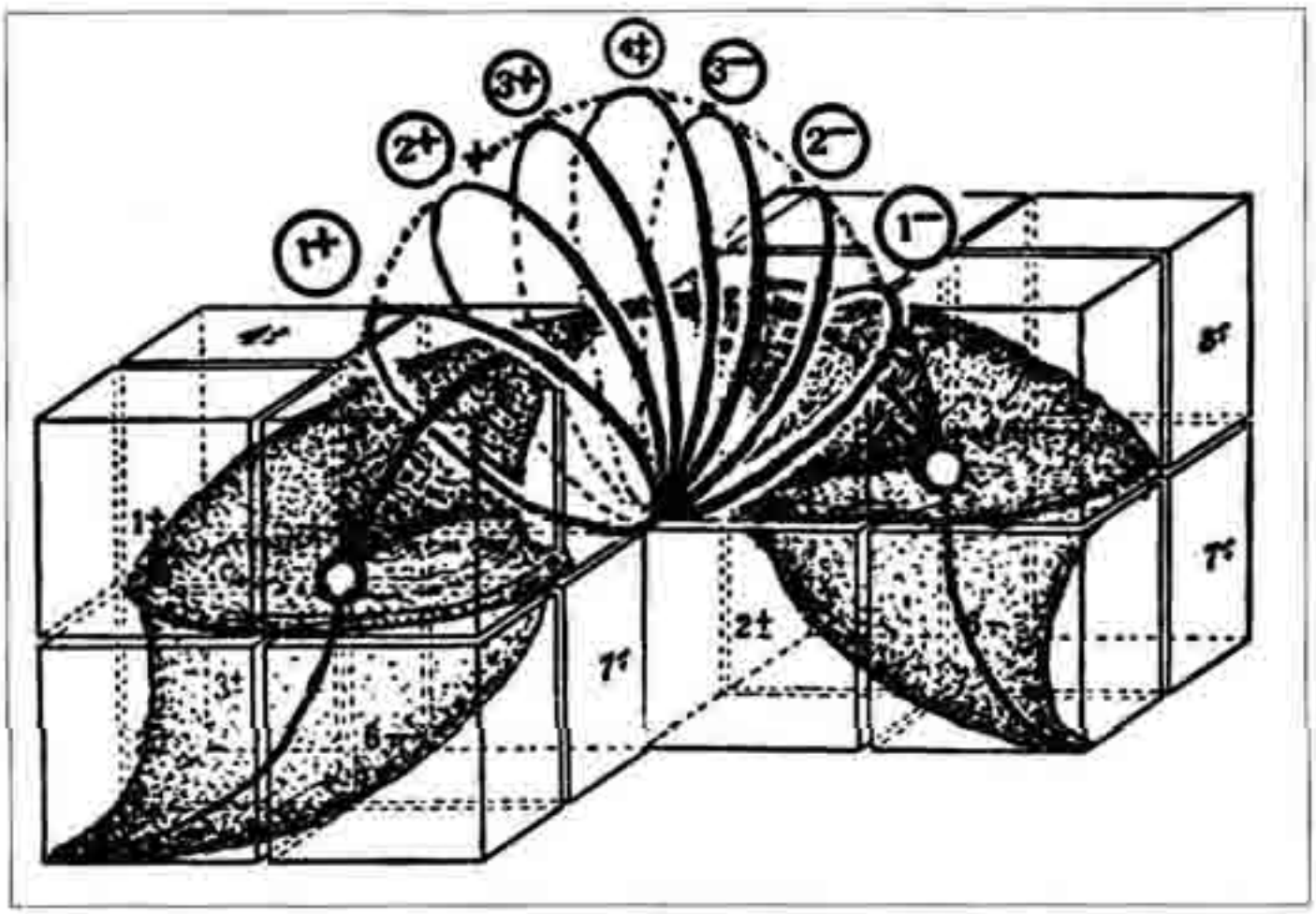


Fig. 76
The octave gyroscopic principle

the distance to and from its succeeding one, in accordance with its direction. The direction of gravity is the inverse square, and the opposite direction is the direct square.

The volume of each succeeding element is likewise affected directly and inversely as the cube.

Six of the eight gyroscopic wheels of the whole octave are thus accounted for by geometric projection of two-way opposed lights through each other, from two sets of three mirror boundary fields. The fourth double tone is formed at the rest point where eight cube wave fields meet. This is the point of rest which is known as the center of gravity in earths or suns—where motion and curvature cease.

The completed sphere thus becomes a section of eight adjoining wave fields and revolves around that point of rest upon the wave shaft where the two half cycles of the wave meet.

For this reason the four-zero-four position is one of balance in which the yellow of orange is the dominating color of one of its two gyroscopic wheels and the yellow of green is the other, centered by white.

At the two points upon the still shaft of the turning sphere where the shaft penetrates its surface are the magnetic poles of still Light which control the balance of each sphere's turning. One of these is the north magnetic pole which controls the winding of the sphere into density by centripetal electric force, and the other is the south magnetic pole which controls its unwinding centrifugally into space.[10]

In a sphere such as our nearly mature sun, these magnetic poles are practically upon the sun's pole of rotation, but upon oblating planets, such as our earth,

the magnetic poles are removed from that pole of rotation in accordance with the measure of the earth's oblateness.

The elements of matter are miniature stellar systems. Every principle and law which applies to one applies to the other. This solar system is a gyroscopic wheel in the position which iron occupies in the elemental series. When it spirals a little further it will correspond to a carbon atom.[11] The sun will then be a true sphere and its new planets will also be true spheres.

The gyroscopic principle accounts for that law of Nature which causes like elements to seek each other. All decomposing compounds are sorted out, element by element, gyroscopically.

The efforts of man to transmute one element into another must be governed by this principle, and not upon the theory that another substance will be obtained by "knocking out one electron." It makes no difference how many planets there are in a solar or atomic system in so far as its "substance" as an element is concerned. One or more added or subtracted would not change the element into another substance any more than one or more children would affect the nationality of their parents.

Transmutation will become simplified by observing that the plane of gyration, in relation to amplitude, and the speed of revolution of the gyroscopic wheel upon its

still shaft, will alone change volume by either multiplying or dividing density.

Great possibilities in new metals lie in the proper application of this principle.

THE SHAPE OF THE UNIVERSE

This ageless universe *has* no shape. It has a seeming infinite extension, but that extension is a reflected one. This electric universe of two-way extended light is but a series of mirrors which reflect into each other through curved lenses. Its seeming extension might be likened to a light within a mirror-bound room.

One light within such a mirrored enclosure would seemingly extend infinitely, but the light thus mirrored would be the same light. The reflected extension would have no reality.

The idea of continuity or discontinuity is based upon mirrored effect of an initial Cause. Continuity infers time. Time is but one of the effects which constitutes this universe. Time flows two ways, but the senses detect only the forward flow. They cannot detect the backward flow which cancels out the forward flow. Time is as unreal as the wave universe is unreal.

What is true in principle of one wave is true of all waves. Each wave is a two-way reflected extension of an equilibrium zero which we call a vibration. Vibrations

appear, disappear and reappear from their source of rest to manifest idea which is existent alone in rest. Just as the vibration of one wave disappears into its zero of universal stillness, so do all vibrations disappear into the universal zero of stillness. This zero universe of vibrating waves can have no shape other than a seeming one.

THE VOIDING PRINCIPLE

This is a zero universe of seeming mechanical motion of force exerted in a seeming three-dimensional universe.

Every action of any nature begins with zero, counts up to nine, to end and begin again at zero. Beyond nine it cannot go, but up to nine it must go. Nine is universal.

Nine is universal because it is the wave field number—the eight of the cube centered by the zero of gravity in the sphere.

Our decimal system is based upon the wave field of the cube sphere. It is as follows:

	0 - 1 - 2 - 3 - 4 - 0 - 4 - 3 - 2 - 1 - 0
equals	10 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10

The musical scale and the spectrum of Nature correspond to the wave field tones. They are as follows:

musical	0	1	2	3	4	0	4	3	2	1	0
tones	do	re	mi	fa	sol	rest	sol	fa	mi	re	do
	(Keynote)				(Overtone)						(Keynote)
spectrum	black	red	red orange	yellow	white	yellow	green	blue	blue	black	
tones	violet									violet	

Fig. 75 demonstrates this fact. The three centering planes are centered by zero. All intersections of these planes add up to eight. Eight, centered by their zero source, equals nine. Likewise the cube itself adds up to eight by counting the intersections of its six faces. Also there are eight directions of action and eight of reaction; each eight being four pairs, which are nine by adding the centering zero.

Nine is the three times three of length, breadth and height extended from zero. The length, breadth and height of any expression is two extended zeros centered by zero. (Fig. 2, p. 219)

Length and breadth are static, for they are both on equipotential levels. Height is dynamic, for it is radial.

The universal nine of matter and space is three mirrors of rest, centered by rest, from which all three extend at right angles to each other, each mirroring itself into the other. (Fig. 75)

The universal nine of the octave is four pairs of opposite pressures extending diagonally from zero which centers the cube to eight zeros which corner the cube. (Fig. 75)

The measure of extension from zero to zero is desire for extension. Desire for extension from zero to zero is energy in zero. Energy extended from zero to zero is manifested by pressures of desire equally multiplied and divided—equally added and subtracted

—equally credited and debited—and equally and oppositely conditioned. The sum of all these balanced effects is zero. (Fig. 75)

Zero pressures equally multiplied and divided are manifested by the action and reaction of motion. Motion is a projection of the opposed energy pressures of desire from within a centering zero to the extended mirrors of rest, which measure desire and mirror it back to rest in the centering zero as expressed desire. The sum of dually reflected motion thus expressed is zero.

Zero thus extended by action to fulfill desire for expression, and simultaneously mirrored back to manifest the fulfillment of expressed desire, is all there is to this universe of rest. Zero multiplied or divided—added or subtracted—extended or retracted —results in zero. This is a zero universe in all effects of motion—a seeming universe in time and sequence —and a mirage universe of imagined form.

It is a universe of two negations which simultaneously cancel each other and sequentially repeat the cancelling of their negations to create the illusion that zero can be multiplied—or divided—or added to —or subtracted from—to create a reality which never is nor can become. (Fig. 75)

That is what Creation is. It is the imagining of knowing. Knowing is Light. Light is still. Imagining is thinking.

Thinking is the imagined action and reaction of motion mirrored from zero of rest to zero of rest.

This is a still universe of the Light of knowing. In it is no activity.

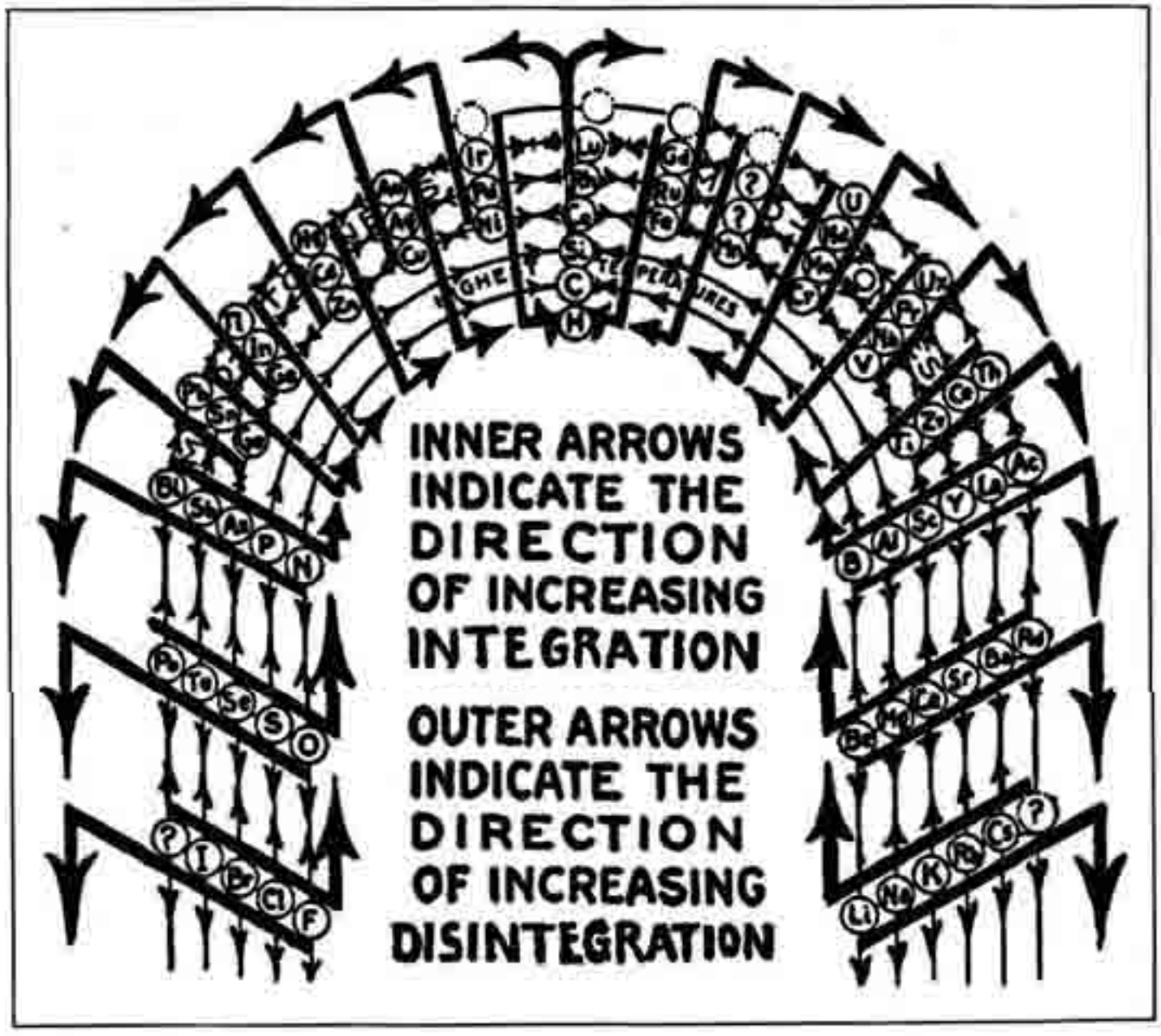


Fig. 77
Opposite actions simultaneously void each other

But what about our senses? Our senses tell us otherwise. Our senses are inadequate. They deceive us mightily. And that is good, else the play of Creation could not be played. The senses record but little of the whole. If

the senses could but see the whole there would be no play. The senses record motion alone for the senses themselves are but motion. Motion is an illusion which only *seems.* It has no being.

The senses do not *know,* but man believes that his senses *do know*—and in that belief lies man's confusion.

The senses, being but motion, sense moving things and moving light mirrored as moving things. They sense the forward movement of an airplane piling up compression ahead of it—but they do not record the mirrored invisible counterpart of that plane—equal to it in potential and speed—moving backward into a vacuum behind the plane which simultaneously voids the compression ahead of it.

This inadequacy of the senses to record the backward flow of forward moving things—causes the illusions of sequence and of time.

In Fig. 77 this principle, diagrammed by arrows extending two ways from every element in the whole known series, indicates that integration is simultaneously balanced by disintegration. No time interval elapses between the debiting of any credit extended to opposites in Nature.

Fig. 78 diagrams all matter as pairs of opposite conditions. Each line is connected with its opposite mate. Each of the pair is a negation of the other one. Each pair

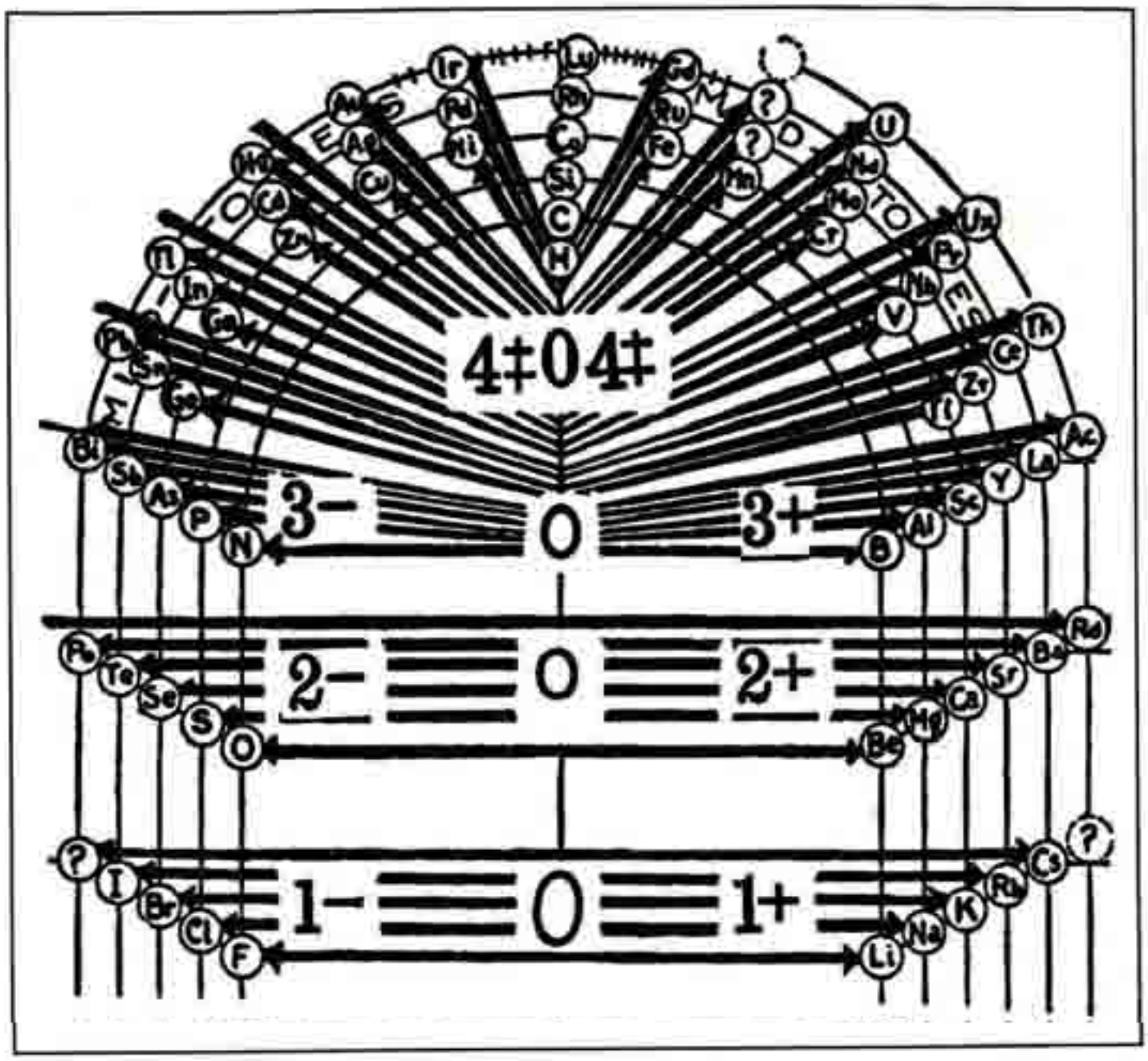


Fig. 78
This universe of matter is composed of pairs of negations which never exceed zero

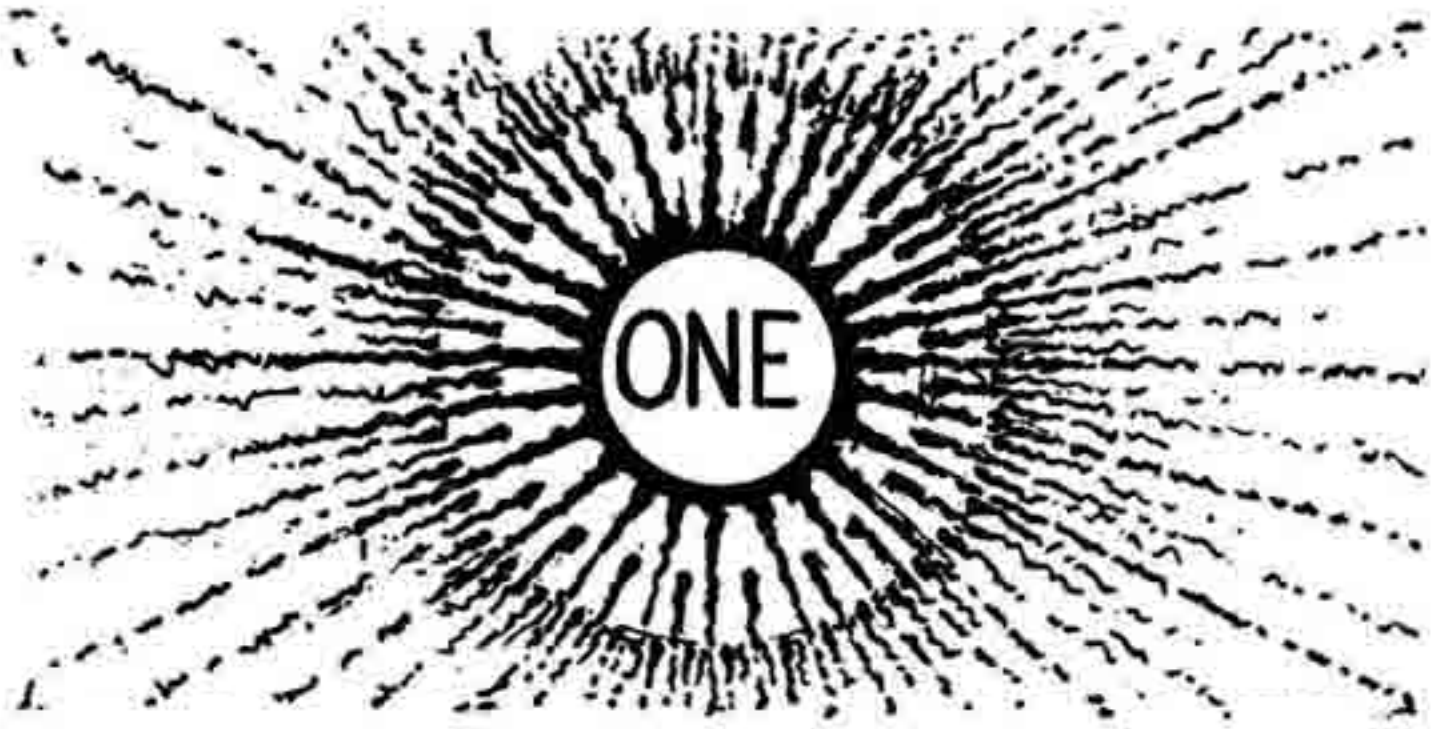
is conditioned as the two tanks of air in Fig. 18 and the storage battery in Fig. 19, on page 231, are conditioned. Each one of these elemental pairs is an equal and opposite mirrored extension from a centering zero fulcrum.

The fulcrum of all effect is the One Light of God.

GOD ALONE IS—IN MAN—AND IN ALL THINGS

"Every action is voided as it occurs, is repeated as it is voided, and recorded as it is repeated."

—*From* THE DIVINE ILIAD



1. Walter Russell shows here that sensed observation can result in incomplete vision and incomplete scientific laws. He points out that Newton based his law of gravitation on his observation of what gravity did to an apple, while admitting he did not know what gravity was. Newton did not sense the whole cycle of the apple in time "falling" up to the heavens as it disintegrates and reverses potential.

   Walter Russell states that Newton's mathematical formulae, written to prove that the moon would fall into the earth if its motion were stopped, applies to "every satellite, planet and star in the heavens, as well as to every electron in every atom, none of which are falling into their primaries." Walter Russell implies that Newton's laws of gravitation were incomplete. It is obvious from the Russell cosmogony that the moon can never stop its motion, nor can any of the other bodies that move around their primaries stop moving. They do not fall because they are always seeking and finding, losing and refinding their potential positions in their movements. If they were to stop their motion, they and all the Universe would disappear. If they were to stop their orbital motion and move inward or outward, to or from their primary, there would be a counterbalancing movement from their primary to balance this change of pattern unto the furthermost reaches of the Universe.

   In *A New Concept of the Universe* (pp. 50-52), Walter Russell takes up this subject again. He says that Newton concluded the moon has weight in relation to the earth similar to how a cannon ball has weight to the earth. This assumes that the moon had to have an "initial impulse" to keep it rotating around the earth to keep it from falling into it. Russell concluded that Newton's belief that weight is a fixed property of matter instead of an ever changing property of ever changing polarity was the result of sensed observation. See reference to this note on page 46 in this third edition of *The Secret of Light*.

2. Walter Russell in all of his later writings spoke of gravity as being a thrusting inward from without. For example, in *Atomic Suicide?* this concept is expressed in various ways, as on page 134: "Bear in mind the fact that you are compressing from the outside inward," and on page 135, "There is no force of any nature which holds it together by an inward pull. Nature does not attract nor does it repel. It compresses within a vacuum." He also expresses this idea on pages 89, 104-105, 138-139, and 145. In the *Home Study Course* this idea is expressed on page 719: "The word 'magnetism' is also unjustifiable. The word GRAVITY should be used instead, for gravity both multiplies and divides by thrusting inward from without to compress and outward from within to expand." This viewpoint is explored in considerable detail on pages 719, 724-727, and 733-735 of the *Home Study Course*.

   On page 10 of *A New Concept Of The Universe* Russell says, "One of these two electric conditions thrusts inward toward a center to create a

centripetal vortice to simulate gravity. On the other side of the dividing equator, the other condition thrusts outward from a center to create a centrifugal vortice to simulate vacuity." On page 40 the idea is expressed as, "An outward explosion compresses in advance of the direction of the action and *simultaneously* evacuates in the opposite direction. The following half of the cycle is in reverse. The evacuated condition becomes a compressed one, and the compressed condition becomes an evacuated one." This idea is expressed directly and implied in many other pages throughout *A New Concept Of The Universe*. See references to this note on pages 149, 185, 189, 226, and 227 in this edition of *The Secret of Light*.

3. All motion—whether electric, light wave, or any kind of motion—always occurs between a cathode and an anode. Movement from cathode to anode occurs in an inward bound, centripetally directed manner towards more density and greater mass at the anode. All motion in this direction is compressive and contracting. Movement from anode to cathode occurs in an outward bound, centrifugally directed manner towards greater tenuity at the cathode. All motion from anode to cathode is extensive and expanding. Reference to this note appears on page 167.

4. Editors' note regarding the nine octave periodic chart (as of 1994.) There were elements predicted by Walter Russell as unknowns in his 1926 charts that were discovered prior to this date that he was unaware of. These elements, their discovery dates and octave positions are: Hafnium (1923) in the eighth octave at the third locking point, thirteenth isotopic position on the blue spectral side; and Rhenium (1925) in the eighth octave, third locking point, tenth isotopic position on the blue spectral side.

Protactinium was discovered in 1917 and Walter Russell named this as Uranium XII in his 1926 charts. This element occurs in the ninth octave, third locking point, second isotopic position on the red spectral side.

There were elements predicted by Walter Russell in his 1926 charts that were subsequently discovered after 1926 and before publication of *The Secret Of Light* in 1947 whose discovery at that time he was still unaware of. These elements, their dates of discovery and octave positions are: Technetium (1937), seventh octave, third locking point, fourth isotopic position on the red spectral side; Francium (1939), ninth octave, first locking point, on the red spectral side; and Astatine (1940), eighth octave wave, first locking point on the blue spectral side.

Note that each octave runs from inert gas keynote to the next inert gas keynote with the amplitude element at the center of each octave. For instance, gammanon is the keynote for the hydrogen octave with hydrogen as the amplitude element, so the octave runs from gammanon through carbogen and helionon to helium as the next carbon octaves

keynote. The octaves are designated by the vertical brackets to the sides of the element names and the amplitude elements are designated by their names and the horizontal lines running through these amplitude positions. Reference to this note appears on page 262.

5. There are thirteen isotopes, if you consider and count the unknown element between neodymium and samarium on the positive or male, red half of the cycle; and there are thirteen isotopes on the negative or female, blue half of the cycle counting the two unknown isotopes between lutecium and tantalum and between tungsten and osmium and if you also count two more isotopes that Walter Russell says in a note at the right side of these isotopes must exist between lead and bismuth. See reference to this note on page 269.

6. Niton, discovered in 1908, is now known as radon. See pages 269 and 272.

7. The visible octaves may be considered to be five and one half in number if one ignores the three known elements of the third octave; and the unknown and invisible elements of the last half of the ninth octave. The last half of the ninth octave is considered to be part of the first, invisible, space octaves. It precedes the first full octave which begins with the keynote inert gas alphanon. See page 272.

8. The invisible space octaves beyond our range of present perception may be considered three and one half in number: if one considers 1) the last half of the ninth octave to be part of the first, invisible, space octaves, and 2) all of the third octave elements to be unknown, though only four elements are yet undiscovered. The last half of the ninth octave includes the elements tomion, alberton, blacton, and boston. The four yet unknown elements of the third octave are carbogen, luminon, halanon, and helionon. The three known elements of this octave are hydrogen, ethlogen (deuterium) and bebegen (tritium.) See page 273.

9. Walter Russell's reference source for the spectral lines for iron came from *An introduction To The Study Of Spectral Analysis* in the Catalogue of Spectra, pages 185-206. Authored by W. Marshall Watts D.Sc., B.Sc. F.I.C., published in 1904 by Longmans Green and Company, London, and printed by William Glowes And Sons, Limited, London. Present scientific texts have different standards and different spectral readings for iron. See reference to this note on page 274 of this book.

10. In all other places in his works, Walter Russell speaks of the north and south magnetic poles as both being charging poles that wind the sphere into density by centripetal force. He also later removed the term magnetism in relation to what we normally call the magnetic field, saying that this too was electric motion. On page 30 of *A New Concept of the Universe* Russell says, "Radiation is an electric effect. It is not magnetic." And again on the same page he says, "There are no magnetic lines

of force in Nature." The term magnetism was reserved for the "stillness" of the "Zero universe of mind knowing."

On page 27 of *A New Concept of the Universe* Russell says, "These two points of stillness where electric motion reverses from one opposite pressure condition to the other are what science calls magnetic poles. The office of magnetic poles is to balance and control all electrically-divided motion in the universe. ... All electrically-divided matter, ... is controlled by a still centering point of magnetic light." In this view all effects that science normally calls electric and magnetic he chose to call electric.

This corresponded to his change in describing gravity. He also named electricity and gravity as One. He called gravity both the inward and the outward directed electric motion, saying it was a thrusting inward from without and a thrusting outward from within. See note number one.

In this way he unifies what is normally called gravity, radiation, electricity and magnetism as the same entity or process. In one phase it is inward bound, compressing, heating, charging and contracting; in the other it is outward bound, extending, cooling, discharging, and expanding. On page 715 of the *Home Study Course* , the Russells say, "Creation must henceforth be looked upon as AN OPTICAL UNIVERSE OF GRAVITY CONTROLLED LIGHT..."

On page 31 of *A New Concept of the Universe* he says, "The curvature of gravitation is centripetal. It is controlled by the north-south magnetic poles." And, on the same page he continues with, "The system of radial curvature is centrifugal. It is controlled by two as-yet-unknown magnetic poles which will amply be described later as east-west poles."

Therefore, we could rewrite the sentences this note refers to on page 279 of *The Secret Of Light* as follows: At the two points upon the still shaft of the turning sphere where the shaft penetrates its surface are the north-south magnetic poles of still Light, which along with the east-west equipotential circumferential poles of still magnetic Light, control the balance of the sphere's turning. The north-south magnetic poles control the winding of the sphere into density by centripetally directed generative, electric force of gravity, and the east-west poles control its unwinding by the centrifugally directed radiative, electric force of gravity."

In this way the statement conforms to his later vision of how he termed magnetism, radiation, and generation: Magnetism resides in the stillness of the zero point center of the pole-shaft (the still magnetic Light of Mind); radiation exhibits the outward electric thrust of gravity; and generation exhibits the inward electric thrust of gravity. Reference to this note appears on page 279.

11. After spiraling further, iron will correspond to a cobalt atom in the carbon amplitude position. See page 280.

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