COUNTY OF SAND DIEGO

ROYAL R. RIFE and VERNE W. THOMPSON, the petitioners named in the foregoing application, being sworn, depose and say;

That they are citizens of the United States and residents of San Diego County, State of California; that they verily believe themselves to be the original, first and joint inventors of the improvement in

MEANS AND FROCESS FOR SEPARATION, TRANSFORMATION, CONTROL, AND EXTRACTION OF MINERALS AND CHEMICALS FROM LIGHTS, SOLIDS, AND GASSES, AND THE DEVITALIZATION AND/OR CONTROL OF BACTERIA, VIRUS AND FUNGI

described and claimed in the annexed specifications; that
they do not know and do not believe that the same was ever
known or used before their invention or discovery thereof, or
patented or described in any printed publication in any
country before their invention or discovery thereof, or
more than one year prior to their application, or in public
use or on sale in the United States for more than one year
prior to their application; that said invention has not been
prior to their application; that said invention has not
been patented in any country foreign to the United States on
an application filed by themselves or their legal representative or essigns more than twelve conths prior to this application; that no application for patent on said improvement
has been filed by themselves or their representatives or assigns in any country foreign to the United States.

R.R.RIFE

VERNE W. THOMPSON

TO THE COMMESSIONER OF PATENTS:

Tour petitioners, ROYAL R. RIFE and VERRE W.

THOMPSON, citizens of the United States, and residents of
San Diego, State of California, whose post office
addresses are 3676 Zola St,
and 3786 Albatross respectively, pray that letters Patent
may be granted to them for an improvement in

MEANS AND PROCESS FOR SEPARATION, TRANSPORTATION, CONTROL, AND EXTRACTION OF MINERALS AND CHEMICALS FROM LIJUDS, SOLIDS, AND GASES, AND THE DEVITALIZATION AND /OR CONTROL OF BACTERIA, VIRUS AND FUNGI

set forth in the enmened specifications; and they hereby appoint

CONRAD C CALDWELL registration No. 16009

whose address is 4094 50th Street, San Diego 4,
California, their attorney with full power of substitutions
and revocation, to presente this application, to
make alterations and amendments therein, to receive the
patent, and to transact all business in the Putent Office
connected therets.

Diego, State of California, this both day of August,

R.R.Rife

Yerne W. Thompson

Keel 054 Frame 074 and 075 MAY 31, 1955

Application # 512,326 may 31,1955

chemical substances, bacteria, virus, and fungi with electro-magnetic rediations and has particular reference to the means and process for separation, transformation, control, and extraction of minerals and chemicals from liquids, solids, and gases, and the devitalization and/er control of bacteria, virus, and fungi by expecing such substances to the concentrated radiation of electromagnetic energy having specific and determinable

part of our copending application Sorial # 512,526 filed

May 31,1955 for a PROCESS FOR THE SEPARATION OF CHEMICALS

FROM LIQUIDS, SOLIDS, AND GASES AND DESTRUCTION AND CONTROL

OF BACTERIA, VIRUS, AND FUNOI.

have an inherent natural resonant frequency, and that if
such chemical compound is subjected to such resonant
frequency of sufficient intensity its chemical composition
or characteristics have been changed

It is also well known that bacteria, virus, and fungi are, in essence, a chemical conversion plant and will survive only in given environment which supplies the proper and necessary food and that upon consumption of this food the virus, or bacteria produces

deleterious chemicals which adverselt affect the body. If sufficient of the virus are present to produce 202 sufficient of such deleterious chemicals, serious illness results. If the chemical composition or

obaracteristic of the environment is changed suffielently, or if the chemical by-product from the bacteria or virus is changed, the virus and bacteria become devitalised or destroyed and the harmful effect upon the body is removed.

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invention to provide a means for producing electromagnetic energy and of directing that electro-magnetic
energy in a concentrated and directed bean to the

locality of such virus, bacteria, or fungi being treated
in order to destroy or change the chemical cohrecteristics
or composition thereof.

provide a means for the generation of a directed, comcontrated beam of electro-magnetic energy and including
means for varying or pre-selecting the frequency range
for such electro-magnetic energy.

Students of besterie and virus have long known

or individual and distinctive color range. The color range corresponds to,or is controlled by the chemical composition of the environment in which besteria, virus or fungi resides.

resonant frequency required to devitalize or destroy

10 such bacteria, virus, or fungi or to affect the

characteristics of the various chemical compounds being

treated corresponds to the frequency range of the color

of each bacteria, virus, or other chemical composition

and that if such bacteria, virus, or fungi or chemical

composition is subjected to electro-magnetic radiation

15 having a frequency resonant with such color range and in

sufficient intensity that the bacteria, virus, fungi or

other chemical composition will be changed, devitalized,

or destroyed.

Also among the objects of our invention is to provide a process or method for treating bacteria, virus and fungi by first determining the color range thereof and subjecting such bacteria, virus and fungi to a relatively high intensity radiation of electro-magnetic energy having a frequency which is resonant with such color frequency or harmonic thereof.

spent in recent years attempting to convert eccan or sea water into usable domestic water to increase the source thereof for our expanding population. Most of such efforts have taken the direction of mechanical separation of sodium chloride and other chemicals dissolved in the ocean water by means of evaporation and condensation. Large amounts of energy are required for this type of separation, which of a necessity, establishes a high cost for the usable water produced.

we have found by experimental usage that the sodium chloride and other chemicals can be removed from sea water by subjecting such sea water to radiations of electro-magnetic energy havinghackenimency resonant with the natural frequency of such chemical, or by a chord of frequencies having such resonant frequency and harmonics thereof.

We have established on numerous occasions that
by subjecting such chemical radiations that the solution
being treated will become stratified in that the various
chemicals will settle to the bettem leaving substantially
pure water to be removed from the top. It is therefore
also smong the objects of our invention to provide an
apparatus for the continuous treatment of sea water in
order to separate the dissolved solids therefrom in
order to obtain relatively pure and usable water.

The processes above described cover a much

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broader range of application to chemical transformation than the examples illustrated. The process herein specified of separation transformation, control and extraction of minerals and chemicals from liquids, solids and gases and the devisalemention and/or control of becterie, virus and fungi by subjecting, exposing, treating or processing such liquids, solids and gasses to a specific and determinable electro-magnetic frequency source which releases a vibrational energy coordinating with the critical energy level of the liquid, solid, or gaseous substance involved causes a transformation of such chemical constituents in such substance into an ionized or separable state. transformation produces a separable or soluble or partially soluble compound or ionized molecule which is capable of seeking its own level by settling or separation from the other liquids, solids or gasses by seeking its own level in solution depending upon the specific gravity of the separable constituent or constituents involved. Thus, the separation, transformation and/or entraction of the various chemicals, minerals, and/er molecules thus stratified by a process of sedimentation end/or filtration.

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Other further objects and adventages of our invention will become apparent from the following specifications and the drawing illustrated thereof,

Fig.1 is schematic representation of one of the preferred forms of our invention for treating besteria, virus and fungio

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Fig.2. is a schematic representation of a form of our invention for treating chemical compounds in solution.

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of our invention for the treatment of besteria, virus and fungi comprises essentially a frequency generator designeded generally by the numeral 10 of any well-known type. Such frequency generators are well-known in the art. We prefer a type having a broad range of generation and sufficient output capacity to produce radiation of sufficient intensity to render our processes prectical.

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The frequency generator 10 may be provided with some means such as control knob 11 for changing or varying the frequency output. Although it is not necessary it is sometimes preferred that the frequency range out-off should not be too sharp so that a relatively wide band of the frequency spectrum can be radiated as desired.

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whereas any satisfactory means for controlling and directing the breadcasting of such electro-magnetic energy can be emplyed, we have found the most satisfactory to be a vacuum tube type such as illustrated horsin and mileh includes a glass envelope 12, an electronic gun 13, and a reflector or concentrator 14. The tube is also provided with external terminals 15 and 16 which are conductively coupled terminals 17 and 18 of the frequency generator 10 by means of epaductors 19 and 20.

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The employe 12 should be evacuated of all air and refilled with one of the inert gases found in class "0" of the periodic tables to a pressure of appreximately 14 millimeters of mercury. Whereas all the gases found in class "0" will work, we prefer the use of belium as a filler for the evacuated tube because it results in better definition of focusing of the beam and will stend up better under continuous use and bembardments

In order to treat certain bacteria, virus or fungi so that they will be devitalized or destroyed it is first necessary to determine the color range of such bacteria, virus or fungi under a polarized microscope and then to set the central knob 11 of the frequency generator 10 to a segment of the frequency spectrum as published by Bureau of Standards which includes the known frequencies for the colors found for such bacteria, virus or fungi.

It has long been well-known that such meladics as cancer have been considered insurable and may prove fatal unless physically removed by surgery. It has also

been well known by us that a specific virus causes the

We have observed by experimentation on cancer

- tismes removed from concernus nice that the concer oub jecting virus can be destroyed by makenituding them to an intense rediction of electro-magnetic energy of a frequency range from 2000 to 2150 on a carrier wave of 4150 K.C. We not only have proved this by clinically growing cancer in mice and then subjecting them to such radiations which 10 resulted in the euring of such cancer, but we have also observed the complete devitalization and destruction of cencer virus by subjecting such isolated virus to such radiation while observing their actual physical behavior under a light passing microscope of the type developed by 1.5 Rayal R.Rife and described in " The New Microscopes" by R.R. Seidel and H. Elizabeth Winter, Volume 237 No. S. February, 1944, Journal of Franklin Institute,
 - A great many other virus have been destroyed in the laboratory by subjecting them to redictions of electro-magnetic energy of a frequency which is resonant with the lower harmonic equivalent frequency of such virus. A few virus, fungi and bacteria which have been treated and devitalized or destroyed and the frequency on a carrier wave of 4150 K.G. required for their destruction is set forth in the following table;

Troposone 180

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as Sie

	Gonerrhea	712
	Typhoid	718
	Staphlococci	726
	Pneumonia	976
	Streptothriz	784
	Becillus Coli Rod	800
	Tuberculosis Rod	808
	Streptococci	880
200	Tuberculesis Virus	3,558
	Becillus Coli Virus	2552
	Thyphoid Virus	1000
*	Sarcoma	2008

Cancer Virus

18 Referring now to Fig. 8 we have
illustrated schematically one example of a device for
treating chemicals in solutions such as the removal of
sodium chloride and other chemicals from sea water.

The illustration herein shown includes a container

29 designed generally by the numeral 20 containing the
chemical solution 21. A plurality of frequency generators
such as 22,25 and 24 are provided for
reasons which will be explained later. Each of the
frequency generators are conductibly connected to
25 terminal plates 25 and 26 by conductors 27 and 28
respectively.

2128

D.C. power supply 29 is connected to the terminal 30 plates 25 and 26.

resonant frequency on the terminal plates 25 and 26
from a single frequency generator such as 22 is effective
in changing the characteristics of the chemicals in
solution, we have also found that the use of the multiple
frequency generators for the purpose of impressing
several different frequencies forming harmonic chards
isomere effective to transform or change the character—
istics of the chemicals in solution.

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the plates 25 and 26 by attaching a source of direct current to the plates also assists in the chemical processes.

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is ties and chemical characteristics of certain chemicals can be changed by subjecting a solution thereof to the action of electromagnetic energy corresponding to the resonant frequency of such chemical compounds. For example, ordinary sea water was subjected to radiations having a frequency range from 120 C.P.S. to 30,000 C.P.S. and it was observed that the various chemical compounds disolved in water settled to the bottom in a stratified form corresponding to the specific gravity of the various chemicals and that the top portion of the water became sufficiently pure for domestic use. Filtration of the decanted top portion may become

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The above examples and descriptions are intended as illustrations only, are not to be considered limite ations upon our invention; also, the specific device illustrated schematically in the drawing is by way of illustration and constitutes what we consider to be the preferred and most efficient means for producing and directing a concentrated beam of electro-magnetic energy. The only limitations to be imposed upon the apparatus or the method are found in the following claims.

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- 2 compounds, becteria, virus or fungi to change the
- 5 chemical characteristics thereof including; means
- 4 for generating electrical current having a frequency
- 5 tunable to the resonant frequencies of said chemical
- 6 substances, bacteria, virus or fungi, said resonant
- Y current being superimposed on a high frequency carrier
- 8 wave and broadcastable in the form of electro-magnetic
- 9 energy; and means conductively coupled to said generator
- 10 for concentrating and directing said electro-magnetic
- ll energy at the chemical substance, bacteria, virus or
- 12 fungi to be treated.
- 2. An apparatus for devitalizing or destroying
- 2. becterie, virus or fungi including; & frequency
- 5. generator espable of producing a high frequency carrier
- 4. electrical current having an amplitude modulation of
- 5. variable frequency and tunable to one of the hermonie
- 6. resonant frequencies of said bacteria. virus or fungi;
- To and means conductively coupled to said generator for
- 8. broadcasting said current in the form of eletro-
- 9. magnetic waves and in concentrated, directed beams.

besteria, virus and fungi including; a frequency generator capable of producing a high frequency carrier electrical current having an amplitude modulation of variable frequency and tunable to one of the harmonic resonant frequencies of said besteria, virus or fungi; and means conductively coupled to said generator for broadcasting said current in the form of electromagnetic waves and in a concentrated, directed been, said last named means including partially evacuated envelope containing one of the inert gasees from class "0" of the periodic table, an electronic gas and a reflector target.

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Sa

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12.

to an apparatus for devitalizing or destroying bacteria, virus or fungi including; a friequency generator capable of producing a high frequency carrier electrical current having an amplitude modulation of variable frequency and tunable to one of the harmoni resonant frequencies of said bacteria, virus or fungi; and means conductively coupled to said generator for broadcasting said current in the form of electromagnetic serves and in a concentrated, directed beam, said last named means including a partially evacuated envelope centaining helium at approximately 14 mm Hg.

5. An apparatus for treating chemical compounds to change the characteristics thereof com-

So . prising; means for generating a high frequency current

40 . having an amplitude modulation of a frequency resonant

5. with one of the harmonies of the matural frequency of

6. said compound; terminal plates conductively coupled to

7. said generator edapted to cause said medulated high

8. frequency current to pass through said compound; and

9. means for impressing a direct current biss on said

10. terminal plates.

& An apparatus for treating chemical compounds to change the characteristics thereof com-20 prising; a plurality of seems for generating a high 30 frequency current, each high frequency current having an amplitude medulation of a frequency resoment with one of the harmonies of the natural frequency of said 60 comound, the frequencies of said several amplitude 90 modulations forming harmonic chords; terminal plates 80 conductively coupled to said generators adapted to cause said nedulated high frequency current to pass through 100 . said companying and means for impressing a direct current lla.

12. bies on said terminal plates.

	•	7. The method of devitalizing, destroying
	2.	or changing the chemical characteristics of bacteria
	3.	virus, fungi or chemical substance, comprising the
V	40	steps; examining the bacteria, virus, fungi or chemical
	5.	substance under a polarized microscope to determine
	6.	natural color thereof; determining the frequency
	70	corresponding to said color and subjecting said
	80	bacteria, virus, fungi or chemical substance to electro-
	90	magnetic energy having a frequency resonant with on of
	10.	the harmonics said frequency corresponding to said color.
		ReReRIFE
		Vern W.Thempson

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