

5-18-2008  
Popular Science  
Rena Marie Pacella

re: Your Article June 2008, A  
Homebuilt Tumor-Killer P 54-55

Dear Ms Pacella:

I read, with great interest, your article, which told of Mr. **Kanzius'** use of micro-waves to destroy cancer tumors. It brought back many fond memories of my discovery, use and exploitation of **Radio Frequency (R F)**, devices, which I experienced, in the **1950's**.

I was involved in manufacturing Picture Tubes for approx. **(25)** years. A part of that process, was to heat up the Electron Gun, while under vacuum, to a visible yellow-hot appearance.

The Picture Tube (**CRT**), was fitted in an oven, capable of heating the **CRT** to **400** Degrees Centigrade, **(732)** Degrees Fahrenheit. The neck of the tube was loosely-fitted, inside a coil, and the CRT had means, to be connected to, vacuum pumps.

After the **CRT** was baked, in the oven, (for about an hour), the Electron Gun, had to be processed. One of the steps, involved the use of a "**Bombarder**". The **Bombarder**, (the **DADDY** of the **micro-wave oven**, in your kitchen), was activated for **(2)** minutes.

**Note:** The **Bombarder** was also called an "**R F Generator**". It **WAS** specifically designed to heat metal. **Be careful**, any metal you might put into your microwave, can have serious consequences. **DO NOT EVER**, put any metal, in your kitchen, Micro-wave oven.

In effect, the **Bombarder** heated up the metal, to elicit any/all gasses absorbed, in the manufacture, of the **Electron Gun**. Then the vacuum pumps pulled those gasses, which were generated, out of the vacuum system, (including the **CRT**). They were then expelled into the air, (also termed "**Degassing**").

When the **CRT** was fully processed, it was then separated from the Vacuum System, for further processing. One of the steps, involved the use, (again), of the **Bombarder**. This was done with a “**Split**” coil, much like Mr. Kanzius explained.

Those micro-waves, (**RF**), heat another piece of metal, (for approx (**25**) seconds) called a “**GETTER**”. It is a part of, and attached to, the top of the Electron gun, (which is under vacuum). The **RF** penetrates the glass, with little or **NO** apparent effect on the glass, (more later ), but heats the metal, so that a chemical process is (heat)-activated.

That chemical action, causes it to absorb residual gasses. In doing so, it leaves tell-tale signs on the inside neck, (opposite where the **GETTER** resides), that in effect shows that the process, indeed, has taken place.

A hand-held coil, (insulated from the user), which had only a special single coil, was shaped, in a spiral configuration. It went from a smaller diameter (approx 2” ), then went to an ever - increasing diameter, to about 3 ½”) . The small diameter part of the coil had the ability to project/direct, the microwaves (invisibly emanating from the coil), in a forward direction.

In the years following, the “**Getter**”, (on some **CRT**'s), was placed on the inside of the **CRT**, attached to the “**Anode Button**”. The split coil, (**2** continuously-round coils, but separated from each other), could **NOT** accomplish this. Whatever was to be heated had to be in between them. The single coil could easily do so.

The “**Anode Button**” was a specially-designed small piece of metal, which the manufacturer of the bulb, melted into the side of the bulb. In effect, it was common to both the inside and the outside of the bulb.

This is the way that that the T.V. set could send electricity, (high voltage), into the gun, which was in a vacuum, so that a picture

would be seen, on the screen. If you have further interest, in why or how it all works, see: the following link(s):

[http://en.wikibooks.org/wiki/Television\\_Manufacture\\_and\\_Repair](http://en.wikibooks.org/wiki/Television_Manufacture_and_Repair)

OR

See **GOOGLE**, cibaldi,carmine, Klik on **Television Manufacture and Repair**:

OR

See [cibaldi.org](http://cibaldi.org) ... Go to Home Page .... Klik on files .... then klik on .... t v tube mfg b & w 5-3- 429 K

**BACK TO John Kanzius & MICROWAVES**

Having said that, glass exposed to **RF** waves, has **NO** effect on the glass. Now, however, under special circumstances, the micro-waves **MAY heat the glass**, (after many minutes, (**NOT** seconds), of micro-wave reception. With continuous, persistent, bombardment by the micro-waves, the glass, **DOES**, start to warm up.

As the glass becomes warmer and warmer, it becomes better and better/easier, to be heated, by what is termed, the process of **“Ionic Conduction”**. (see **“1onic Conductor”**), next.

**“1onic Conductor”**), is a process where current is transported by ions moving around, {and possibly **ELECTRONS**, (-) charge and **“HOLES”**, (lack of any charge ... but opposite of the (-) charge}, such that it constitutes current-flow, and, the direction of same.

**“HOLES”** per se: are empty spaces, between Electrons. As such they do **NOT** have any charge. But, in relation to the electrons, which have a negative charge, there is a **“Difference of Potential”**. The **“Holes”** provide an impetus, in conjunction with Electrons, for current, to continue flowing.

The **“Difference of Potential”**, is a term used to describe how electric current moves through a conductor, or between **(2)** electrodes, (generally from the Negative, towards the Positive.

As the **R F** continues to be supplied, (dependent on a number of variables), the glass will continue to get hotter and hotter. The **Ionic conduction**, will tremendously assist the supplier of the microwaves, to accelerate the heating process.

That way, eventually, it **CAN** occur, (dependent on a number of variables). If, the R F ... **IS ... left ON**, in your kitchen Microwave Oven, for **HOURS**, then, it **IS** possible to actually melt the glass, (without any assistance of supplemental heat from any other source).

**NOTE:** Conductors of electricity have the ability to accept microwaves, and store them up. The more micro-wave energy they absorb, the greater the amount of heat, is accumulated.

**NOTE:** TOO many years ago, as a student, I was taught the everything, conducts electricity. Some things, (such as glass), are very poor conductors, therefore, are termed “**insulators**”.

NOW **PROOF**, that glass indeed conducts, electricity is **TRUE** .... (without electrocuting anyone), can be confirmed by the “**Ionic Conduction**”, reaction!

**NOTE:** It is interesting to see, that projecting the single micro-wave coil at your hand, produces **NO** immediate effect. But, if you have a ring on your finger, the ring will get very hot, very quickly.

**NOTE:** If Mr. Kanzius, used the single-coil approach, I am sure that he would be able to project the micro-waves even deeper into the human body, rather than, just those nearest the surface. Perhaps, in conjunction with lo-voltage X-rays, he would be better able to target, and eradicate, localized or clumped tumor cells.

**NOTE ALSO:** Medical Science, indeed confirms Mr. **Kanzius'** claim that heat, approx **(95)** Degrees **C** ... ( **203** ) Degree **F**... range, for **(15)** minutes, **DOES** kill cancer cells, while normal cells are little effected!

Relative to the usefulness and diversity of usage, of **microwaves**, please be aware of the following:

The **Dew Line**, (**Distant Early Warning System**), (**RADAR**), was officially erected, (started **1954**), & completed in **1957**. It was to provide an early warning, against the possibility, that **Russian Bombers**, flying over the North Pole.

Presumably, at that point, they were going to perpetrate, a “**First-Strike**”, nuclear attack on the U.S., like the Dec 7, (**1941**), Pearl Harbor scenario .... only thousands of times worse!

That was/is the shortest possible distance between Russia and the U.S. If **Russia** wanted to attack the United States, we would have very little warning, that such attack would take place. With the then, current speed of the Russian bombers, we could have only about a (**40**) minute warning.

We could then scramble fighter jets and/or send missiles to intercept them, or even launch our own inter-continental missiles, to strike their cities, or other Russian interests.

However, now in retrospect, I **SUSPECT**, that **Dew Line** started in **Alaska** only, before **1947....**

The reason for my suspicion was BECAUSE, I had a friend, who served in an Army Air Force station, (**S A C**), Strategic Air Command, which operated in **Alaska**. It was a modest start of testing, whether or **NOT** there could be an efficacious aspect, to an **early-warning** system.

In secret, (**1946?**), the U.S. military erected the first unit, which constituted the incipient stage, of the erection of the complete network. Later on, the system was expanded to include the Northern Canadian Arctic regions, Newfoundland Greenland, British Columbia, and several other places.

The final complete system, stretched over (3,000 ) miles, and constituted some (63) stations, (WITH MUCH PUBLICITY AND FANFARE). The final cost, in (1958 ), was computed as (1.342.5) Billion (\$1,342,500,000,00) + , +, +, .... WHO KNOWS ?

Eventually, with the advent of ICBM's (Inter-continental Ballistic Missiles AND Submarines capable of delivering atomic bombs, the system was all but abandoned.

### Back to my friend :

He told me the following story, (mystifying, at that time ). That, NO matter how cold it got outside, (OR any type of weather), that when he stood in front of the large Microwave Antenna, he could do so, with NO discomfort whatsoever.

In fact, he could be in a short-sleeve shirt, with NO heavy outer-wear, AND, he still felt warm! Little did he, (we) realize, that the micro-waves, were attempting to cook him!

### Back to Bombarders and micro-waves.

**EXPLANATION:** for a lay person, how a Bombarde**r**/microwave unit works.

All molecules have North, South, magnetic poles, (alignment). When the R F is turned on, the current flows from North to South, forcing ALL the molecules to face (alignment), in (1) direction.

Then the R F wave reverses the direction, of the magnetic field, (from South to North), which is emanating from the unit, (depending on the frequency controlling the unit).

In this case, we will assume the frequency is 30 KHz, (30,000, times a second), forcing the molecules to re-align themselves in the opposite direction.

Re-alignment is thereby changed (30,000) times a second. This then forces the molecules to rub against each other, back and forth, back and forth, etc., creating a lot of friction, thereby creating heat.

That heat, plus the storing of the continuing Micro-wave Energy, (cumulatively), does the following:

It now shows up in the form of increasing heat, in the object the micro-waves are impinging on. As the molecules, in the material being heated, get hotter, the material becomes even hotter yet, via the “**ionic-conduction**” process.

Later, during the inception of my Television Tube Manufacturing business, as a side endeavor, [by successfully mitigating the difference, in AC current, (U.S. 60 Cycle) vs. (European 50 Cycle)], I manufactured 5 KW **Bombarders**. I was able to sell them to both France and Italy.

#### **NEXT: A 1<sup>st</sup> COUSIN OF BOMBARDERS**

The mitigation technique, [coupled up with more powerful cathode-ray power tubes, (304 TL)], also worked with “**Ultrasonic Drilling**” Machines.

This involved a drill bit, imperceptibly vibrating, at 30 KHz, (30,000 times a second). There was **NO** visible movement, but when you tried to get a hold of it, it felt very, very slippery. This was caused by the “**piezoelectric**” movement/effect.

“**Piezoelectric**”, is what happens, by which an application of electricity to a device called a (“**transducer**”), can do work.

A (“**transducer**”), is a device which converts one form of energy (electric), to another form of energy (motion).

The net effect is that it makes a tool, (in this case, a drill-bit), vibrate, the amount of times, equal to the amount of the applied frequency. When the drill is attached to it, the unit is now called an “**Ultra-sonic Drill**”.

These **ultra-sonic drills**, could drill the proverbial square hole, star-shaped hole, or any other unusual hole-shape, you could fashion a bit for. The secret was, that the drill bit **NEVER** touched the material being drilled.

The hole, (in Glass, ceramic, stone, tile or any other substance, which was **NOT** easily drillable), was being made by an abrasive slurry. The particles in the slurry, did the actual hole-making. It was liberally put on the material, where the hole was to be drilled.

**Note:** My company made a **3,000** Watt output unit, for Sheffield Corporation, a Division of Bendix Aviation, in Ohio.

Kitchen Micro-wave Ovens, typically operate at **(2,500,000,000)** Cycles per second, .... **(2.5 GHz)**.

This document was written for **(3)** reasons. The **first** was to thank you for writing about Mr. **Kanzius'** wonderful foray, into a serious medical malady. It has been, and continues to be, afflicting, ... **far too many people**, for ... **far too many years!**

The **Second**, was for information about micro-waves and its potential usages for man's benefit, that otherwise might **NOT** have been known about, including my anecdotal asides.

The **Third**: This document will be published on my **Website**, [cifaldi.org](http://cifaldi.org), so that the information contained herein, would **NOT** be lost. It will be listed in the "**Files**" of my **Homepage**, under the heading of, (appropriately-entitled), **Tumor Killer**.

**Final Note:**

Every effort was made, to be **interesting**, **informational**, as well as **non-technical**. I truly hope, that I have been able to accomplish all **(3)** purposes.

Sincerely submitted,

Carmine Cifaldi