



The First Printed Circuit

By Frank Varano/Verano

I thought this would be an interesting story to tell in our newsletter. It is sort of an inside story about getting a patent. Just keep in mind that behind anything you buy there is some kind of a patent. This patent (first page) that I got with my good high school buddy Bob Lokker was numbered 2,506,604. Today the numbers in the 6 million range.

There are specific regulations about drawing up patent specifications so that the Government Patent Office (GPO) has a standard to go by. For that reason you have to use a Patent Attorney or a patent draftsman. If it is not done right the GPO will flatly reject it.

In the development of the invention, logs must to be kept to prove due diligence. (There are legal implications too.) Each page of the logs must be witnessed and dated by another who understands what you are doing. Every page is numbered. On top of that you have to be careful that the log is kept in a way that is unassailable. Companies that do research do this because their research can lead to patents.

When you have wrestled with your patent attorney to the point where you have covered as many 'claims' as you can think of, no matter how absurd they are, then you submit it to the GPO. The GPO assigns it to a patent examiner who is sort of a devil's advocate in trying hard to shoot it down as non patentable, and disallow as many of the claims as possible.

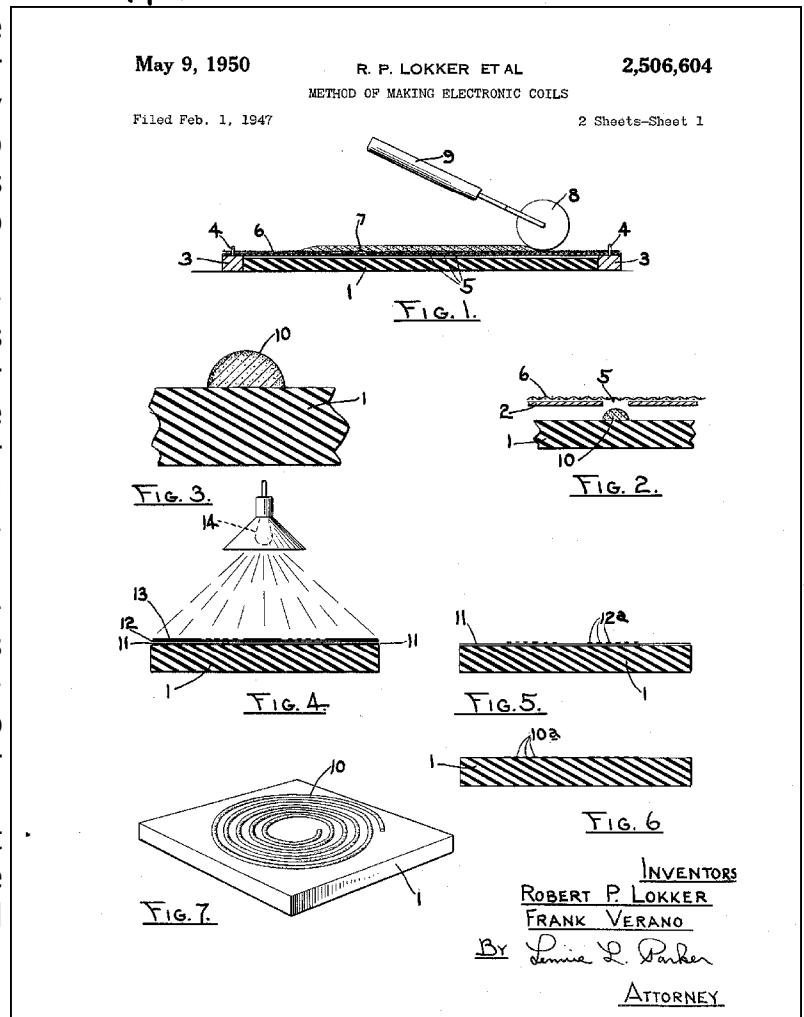
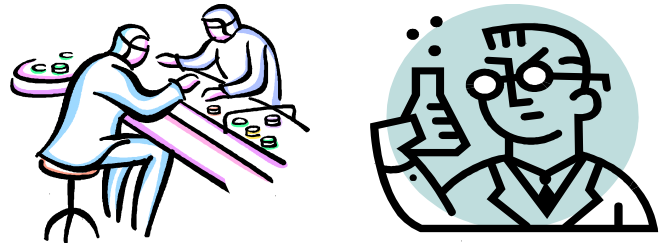
In the process of 'knocking it down' the examiner looks at all 'prior art', that is previous patents that may have predated your own patent. It took three years for us and we had to surrender some of the claims, not all of our initial claims were allowed..

There was one inventor who had a patent dating back to 1922 in which he describes some kind of printed circuit. The patent examiner did not cite it but RCA did when we did battle with them over infringement in 1950 when they

were making radio frequency transformers for Hallicrafters Communications Receivers. Nevertheless, RCA did not see fit to fight the patent and agreed to pay us royalties.

This leads me to tell you that no matter how good your patent is you still have to peddle it. Actually that was harder than the invention itself. Below is the first page of the patent done in accordance with the GPO specifications. I thought the specs were silly but you do what the bureaucracy dictates.

(Continued on page 7)





Board of Directors

President

(Position open)
PRESIDENT@ccmv.net

Vice President

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VP@ccmv.net

Secretary

Jim Semanek
SECRETARY@ccmv.net

Treasurer

Chet Hartley
TREASURER@ccmv.net

Director at large

Lance Boyd
dal@ccmv.net

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Newsletter

E-mail your articles, comments and suggestions and information to:
EDITOR@ccmv.net or
tmsradius@verizon.net

Web Page Address
www.ccmv.net

Take a look .
There is a lot of good information on our Web Site.

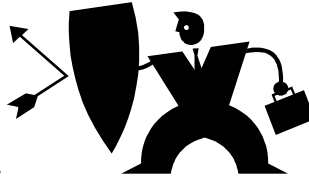
Meeting

Time, Days and Place
2nd and 4th Tuesday
9:00 a.m. to 11:00 a.m.
Seventh-day Adventist Church
29885 Bradley Road,
Sun City, CA

Fran Nakayama's Update

By F. Varano

I received an email from Fran Nakayama, a long time member with an update on JR's cancer battle. The on-again, off



-again chemo treatment has plunged Fran and JR into the 'donut hole.' If you are knowledgeable about the Medicare changes you'll know that when your drug costs get to a certain level (the 'donut hole') you are stuck with the whole drug costs up to a new level.

This is the first I heard of anyone really bludgeoned with that reality. Some of you know that during the chemo treatment Procrit (with no alternative) is used to raise the red blood count and the cost is expensive.

Although the battle is not won yet, Fran and JR are now in the company of support groups of neck and head cancer sufferers.

Fran profusely thanks everyone for "your continued prayers, unwavering caring, and intense concern." Your calls and visits are much appreciated. Believe me, this is a tough battle. I know first hand.

1000 Gigabyte Thumb Drives!!

By F. Varano

"Imagine being able to record every moment of your life on video and hold it on a drive you can easily fit between your fingers!" Researchers have developed new memory nano scale technology. There is nothing like it now. Eighteen months from now is the time scale. It is less than the cost of flash memory, and very energy efficient.

I want to cover it (the technical part) more thoroughly next year. But for now just the thought of having 1000 gig memory of any type is mind boggling. Although the original article refers to the thumb drive, it seems silly to relegate it to the thumb drives.

I see the hard drive being replaced eventually and I suspect that it will be very soon. If you stop to think of it, it is the hard drive with its moving parts which is the most critically vulnerable part of the computer today. There is an old computer adage that says, "It is not a matter of 'if your computer hard drive will fail' it is a matter when it will fail. In short, it is inevitable.

Department Leaders

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Material Distribution

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Shareware Distribution

Position Open
Need Volunteer

Newsletter Editor

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Newsletter

Reporters & Articles
E-mail your articles, comments and suggestions to:
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Computer Instruction

Registrar

Carol Taggart
REGISTRAR@ccmv.net

Teachers & Assistants

Various CCMV Members

Computer Classes: (Suspended)

Watch for Announcements In this newsletter at the start of the new year, January, 2008



COMPUTER CLUB OF MENIFEE VALLEY BYLAWS

Established October 1, 1998

Amended December 2007

ARTICLE 1 – NAME

This organization shall be known as the Computer Club of Menifee Valley, hereafter referred to as the CCMV.

ARTICLE II – CLUB MOTTO

Section 2.01 "Friends Helping Friends"

ARTICLE III – PRINCIPAL OFFICE & FISCAL YEAR

Section 3.01. The principal office of the CCMV functions as a non-profit, community service.

Section 3.02. The principal office of the CCMV for transacting its business is located in the County of Riverside, State of California.

Section 3.03. The CCMV Board of Directors is empowered to change the principal office of the organization from one location to another in the County of Riverside, State of California. Any such change shall be noted by the Secretary in these Bylaws, but shall not be considered an amendment to them.

Section 3.04. The fiscal year shall coincide with the term of officers.

ARTICLE IV – PURPOSE AND OBJECTIVES

Section 4.01. The purpose of the CCMV is to promote computer literacy by:

- A.** Encouraging the use of home computers as a means of keeping mentally alert and active.
- B.** Fostering computer activities.
- C.** Providing educational lectures and demonstrations.
- D.** Provide a cost-free source to address tech support related issues.
- E.** Provide a forum for the free exchange of ideas regarding all types of personal computers, the Internet, and their applications.
- F.** Provide Low-cost formal training in a lab setting.

Section 4.02. To meet the goals set forth in **Section 4.01, A through E**, the CCMV shall foster the establishment of special interest groups (SIGS), maintain a Club sponsored Internet site and provide a Newsletter addressing various computer technologies and user interests.

Section 4.03. To meet the goals set forth in Section 4.01, F, the CCMV will provide the community with the opportunity to obtain club sponsored, formal training.



- A. The CCMV will endeavor to provide classes utilizing equipment purchased, maintained and insured by the Computer Club of Menifee Valley.
- B. Formal training will be designed to provide separate classes at the beginner and intermediate levels.
- C. Competent CCMV members will provide class instruction on a volunteer, non-paid basis.
- D. Computer equipment, Video projector, Computer tables and chairs will be purchased and maintained by the CCMV as the need arises.
- E. Student costs will be limited to book purchase and a small lab maintenance fee.
- F. The board will review volunteers and select a competent member to serve as Registrar to coordinate class schedules and student registration.
- G. Class schedules and size will be dependent upon available lab space and will not exceed 12 students per class.

ARTICLE V – MEMBERSHIP

Section 5.01. Membership will be FREE and open to any persons residing in the Menifee Valley area of Riverside County, California and their guests.

Section 5.02. A membership shall be terminated if:

- A. A member resigns.
- B. The member remains totally inactive for a period of 12 Months.
- C. The Board acts to terminate a membership for cause. In these cases:
 - 1. The member must be notified in writing fifteen days in advance of the pending termination and the reason(s) for it.
 - 2. The member has the right to appeal the termination to the Board. The appeal must be in writing and must be received by the Board within 15 days of the effective date of the membership's termination.
 - 3. The Board's decision in these matters is final.

ARTICLE VI – MEETINGS

Section 6.01. The Board of Directors shall determine the Membership and Board meetings sites.

Section 6.02. At the first regular meeting in October officers for the next fiscal year will be elected. In the course of this meeting, no proxy voting will be allowed. A quorum for conducting business is 10% of the total number of Members in good standing.

Section 6.03. At this meeting, a financial report for the fiscal year ending shall be provided by an outgoing officer.

ARTICLE VII – OFFICERS AND DUTIES

Section 7.01. The officers of the CCMV shall consist of a President, a Vice President, a Secretary, Treasurer and a **Member At Large**. These officers, together with the immediate Past President, shall constitute the Executive Committee. Their duties, in general, are as follows:



- A. The President shall preside at all meetings of the Board of Directors and all regular and special meetings of the CCMV.
- B. The Vice President shall be the Administrative Assistant to the President. In the absence or disability of the President, the Vice President shall perform the duties of the President.
- C. The Secretary shall administer and be responsible for the maintenance of all CCMV records other than financial records and shall keep full minutes of Board meetings. Upon request of the President, the Secretary shall make reports to the Board of Directors and to the membership.
- D. The Treasurer shall administer and be responsible for all funds and assets of the CCMV, shall keep proper records of all funds received and disbursed, and shall disburse only those funds in the Treasury as directed and authorized by the Board of Directors. All CCMV checks shall carry the signature of either the Treasurer or the President. Another person may be designated by the Board of Directors to sign checks for approved expenditures. **The Board may audit the Treasurer's books at any time.** The Treasurer shall not be a member of the Audit Committee.
- E. **The Member At Large shall represent the general membership and provide the rest of the Board with input regarding any and all issues of interest to the general membership and the community.**

Section 7.02. Officers must be Members in good standing. The term of office for all officers shall be for one year.

Section 7.03. Officers shall be elected in accordance with the provisions of **Section 6.02** and **Article IX** – Nominations and Elections.

Section 7.04. In the absence of the President, whether temporary or permanent, the order of succession to officiate as Acting President shall be:

1. Vice President
2. Secretary
3. Treasurer
4. Member at large
5. If no officer listed can perform, the Board of Directors can elect a Chairman pro-tem.

ARTICLE VIII—BOARD OF DIRECTORS

Section 8.01. The Board of Directors shall be composed of the elected officers and a fifth director. An immediate outgoing past president shall ordinarily fill this director position. In the event that (for whatever reason) there is no immediate outgoing past president, the Board shall appoint a fifth director from among Members in good standing. A majority of the Board of Directors shall constitute a quorum for the transaction of the Board's business.



Section 8.02. In the event that an officer resigns or leaves office, the Board of Directors shall appoint a replacement from the Members in good standing to serve the remainder of the term for the office left unoccupied by the order of succession. If the Board fails to do so within 60 days of the vacancy, any Member in good standing may call a special meeting to fill the vacancy.

Section 8.03. The duties of the Board of Directors are subject to the limitations of these Bylaws and California law. The Board of Directors shall conduct, manage and control affairs and business of the CCMV.

Section 8.04. The Board of Directors has the authority to establish Committees and appoint their Chairpersons.

ARTICLE IX – NOMINATIONS AND ELECTIONS

Section 9.01. At a Board meeting prior to the annual October Membership meeting, a Nominating Committee, composed of three CCMV Members in good standing, shall be appointed by the Board of Directors.

Section 9.02. The Nominating Committee shall prepare and submit a list of nominees for the slate of Officers at the October Membership meeting. In the course of the October Membership meeting, other nominations may also be accepted from the floor. No member shall be nominated without his or her prior private consent to the nominator.

Section 9.03. Officers elected at the annual October Membership meeting shall take office immediately.

ARTICLE X – AMENDMENTS

Section 10.01. Any Member in good standing or the Board of Directors may propose amendments to these Bylaws. Proposed amendment(s) shall be submitted in writing to the Board. Proposed amendment(s) shall be published in the Newsletter. The amendment(s) shall then be considered at the succeeding annual Membership meeting.

Section 10.02. Two-thirds vote, in the affirmative, of a quorum of Members in good standing, in attendance at the annual meeting where announced, is required to amend, repeal or replace these Bylaws.

ARTICLE XI –STANDING RULES

Section 11.01. Standing Rules, an itemized list of required conduct with which each member shall comply while participating in the activities of the CCMV, may be established and later amended by a two-thirds vote of the Board of Directors or by a majority vote of a quorum of the Members in good standing attending the meeting at which the rules are discussed, provided that previous notice of the proposed changes has been given.



(Continued from page 1)

Certain considerations led us to make a coil (an inductance) as the end product because we thought it was sufficiently general to cover all kinds of printed circuits.

Although the first instance of infringement was a coil, the major use of printed circuits today are interconnections as you see on printed circuit boards and they are in deed ubiquitous.

Much of the patent goes on to describe it using the figures as references. It is too boring to present here. The basic purpose of this article is to give you insight into getting a patent and some of the associated problems in reaping the rewards of the invention.

I mentioned earlier that in the patent, claims are made to cover all applications you can think of. I reproduced that part of the patent here from a pdf document., the claim section so that you can see what I mean. Note that the claims covered any printed circuit made with this method using a dielectric base and a conducting surface.

In our experiments we used silver deposited on glass which I got from my brother who owned a glass factory in Grand Rapids Michigan. Of course, silver is a better conductor than copper which is used largely to-

Do You Know?

By F. Varano

That there will be a battery store next Spring in Brea California? You will be able to access them on the web."

WWW.batteriesPlus.com It will carry all kinds of batteries: cell phone, camera, watch, car, etc. Visit the site and get on their mailing list.

day in printed circuits. At that time there were no copper clad laminates available that we could buy.

We claim:

The method of making a dielectric base with an electric conducting coil permanently attached thereto which consists of providing a dielectric base of the desired shape, permanently attaching a coating of electric conducting material to a surface of said base, covering said material with a coating of light hardening resist emulsion, placing an opaque coil pattern over said emulsion, exposing portions of said emulsion to light through said pattern, removing said pattern, washing away the unexposed portions of said emulsion thereby uncovering portions of said electric conducting material, and etching completely away the uncovered portions of said material, thereby leaving a coil of electric conducting material permanently attached to said base.

ROBERT P. LOKKER.
FRANK VERANO.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,582,683	Harmon	Apr. 27, 1926
1,857,929	McFarland	May 10, 1932
2,166,367	Norris	July 18, 1939
2,179,257	Goloviznin	Nov. 7, 1939
2,401,472	Franklin	June 4, 1946
2,428,043	Searle	Sept. 30, 1947
2,432,800	Reichold	Dec. 16, 1947
2,441,960	Eisler	May 25, 1948

This is part of page that contains the claims

Note that the patent examiner listed the patents that he found in his search for prior art which he thought had a direct bearing on the validity of our patent.

The claims made are important and that is what provides the basis for the validity of the patent in the courts.

To this day it puzzles me as to why the examiner never cited the 1922 Rubin. Now in my senior years I lay awake at night wondering about it. I never thought that prior art in a patent search would give me insomnia when I am almost 90 years old. When I tell my doctor, he thinks I am crazy.

In summary, I must say it was fun and in the process everyone laughed at us. Even the patent attorney thought we were "nuts". Nevertheless we made enough money so that I had enough for tuition at MIT along with the GI Bill.

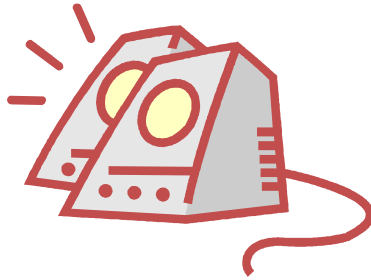




Let The Computer Talk to You.

By F. Varano

I am a strong proponent of using sounds from the computer to tell me what is going on (even to the point of appearing absurd in the eyes of others). Whenever I am called on to help someone on his (or her) computer, I am surprised that many do not have their speakers on at all. Most have tiny speakers which have the frequency response of the tin cans with a string between. It is like buying a SUV equipped with bicycle tires. Even with those miserable speakers you can still take advantage of all kinds of sounds available for each type of event occurring on your computer.



To be sure, not all of the sounds require a fancy speaker system. Using your CD or DVD drives for playing music is a subject for another time. For this article I am staying with a particular category of sounds that can be associated with computer events, such as open programs, close programs, default, critical event, etc.

There are a variety of sounds for the listed events in your sounds and audio devices properties' tool. And sometime, I'd like to lead you through some of them to help you make the computer talk to you. For now, I feel mischievous and I want to present to you something to chuckle at using some unique pinball sounds that are in your XP system. From this I think you might get some ideas of your own. I'll number the steps so you can follow easily.

1. Go to Start | Settings | Control Panel and double-click the 'Sounds And Audio Devices Properties' tool. It might be called something different on your computer.
2. Select the Sounds tab and then choose the program event that you wish from the Program Events menu. This is the part that lists the various events that occur on the computer. Go through them and get the hang of it.
3. Click the Browse button

(Continued in the next column)

Monthly Income and Expenses

Nov. 1— 30, 2007

Chet Hartley, Treasurer

Income (\$)	
Contributions	46.00
Interest	2.93
Shareware/Freeware Sales	25.00
Textbook Sales	80.00
Total Training Income	80.00
Total Other Incomes	25.00
Total Income	258.93
Expenses (\$)	
Church Usage	100.00
Meeting expenses	27.51
Newsletter expenses	10.25
Online/Internet Service	166.80
Total Expenses	304.56
Income less expenses	\$- 45.63

(Continued from left column)

4. Select the Look In drop-down list and navigate or drill down to the C:\Program Files\Windows NT\Pinball folder. You know how to do this, right?

5. Sample the .wav files by hovering over a file and clicking the Play Sound button in the Preview panel located in the bottom left corner of the Browse For Default Beep Sound dialog box.

6. Once you've identified an interesting sound, double-click the .wav file, click the Apply button, and save your Sound Scheme.

If you can't make up your mind which sound to put to a particular event, be aware that you can change anything easily. Don't be fussy. Choose *any* event just for the fun of it and go through all the sounds just for the fun of it. And finally

7. When you are through fiddling with it, try assigning Sound999.wav to the Minimize Program event. I know that this is a wild example of using the sounds on your computer.

My favorite sound is not on XP. I retrieved it from Office 97 long ago and it is the sound of glass breaking. I assigned it to the Windows Error function. When Windows goofs, the computer startles me with the sound of someone throwing a brick through a window of my house.

[Editor: You are hereby classified as a nut.]