

9-28-2008

Dear Mr. Malloy:

Since the 1950's, I have used the terminology "Double-Quadruple Principle", (D Q P), although I cited the "inverse" of the Double Quadruple Principle, to manufacture a special-purpose Electron gun. The gun was then able to project an electron beam, capable of displaying a 1,050-line horizontal picture, instead of the normal 525-line system, prevalent then, and still in American television, today.

In the early years (2,000's), the same philosophy was incorporated as part of a system, which we now know as "Blu-ray" technology. In essence, a THINNER-diameter laser-beam is able to WRITE/READ more data on a DVD disc, because of the rule, of the DQ P!

I also have a Patent, (See details on GOOGLE or my website cifaldi.org), on a Hybrid Solar Heating System, (with extended storage capability). It uses the sun and the wind, as the energy sources. The "wind" part of the unit, takes advantage of the D Q P, to produce greater and greater amounts of electricity, (converted into heat), as the wind velocity doubles.

The following are excerpts from documents authored by myself, which may help people understand the meaning of the Double-Quadruple Principle, (D Q P). (I may NOT have authored the phrase itself, but I can NOT find any technical reference to it)!

Double-Quadruple Principle

Wind Mills/turbines, may generate tremendous amounts of electricity because the "Double-Quadruple Principle" (D Q P) teaches the precept, as explained next!

The magic, of the Double-Quadruple-Principle, (D Q P). A (1") pipe can pass through (100) gallons of water per minute (GPM). Doubling the diameter of the pipe, as you would suspect, does NOT pass 200 gallons of water per minute, but, in reality, actually passes (400) (GPM) of water, through the doubled, (2"), pipe size!

The D Q P is easier to understand, when you have a grid formation of (10) units across and (10) unit-rows down. That grid then contains (100) units. Now, we double the size of the grid, to (20) units across and (20) unit-rows down. The grid NOW contains (400) units. This is consistent with the rule of the D Q P, that when you double certain things, the resultant WILL be (4) times GREATER, than the doubled item.

When discussing Television signals, being broadcast over the air-waves, more bandwidth, (space), in the broadcast spectrum, is required! That is because this use, is ALSO governed by, the rule of the (D Q P).

The American T.V. system, has always, (and still does), [2008], projected (525) lines in horizontal resolution for its television pictures. HDTV projects 1,080 lines. The HDTV system appears to require only double the amount of needed resolution. While the (1080) system, apparently only doubles the amount of lines, (which can be seen), it ALSO doubles, (2X), the data on the lines, themselves, (which basically is out of sight)!

Therefore, by **doubling** the data **ON** the **lines themselves**, times **doubling the amount of lines**, now results in the final, **[(2)X (2) =s (4)]** times the amount of air-wave space, which is needed, again, ... as directed, by the ... **D Q P !**

NOTE: The **D Q P** rule, does **NOT** apply to signals/transmissions, sent over the air, by Satellite. That is because those pictures are broken down, (**525** or **1,080** lines), **digitized**, **one-line-after-another**, **compressed** and **THEN** transmitted, ("**streamed**"), over the air.

The TV sets, then **decompresses** the digital signals, **reconstructs** them, and then displays them, **one-line-at-a-time**, in replication of those, originally formed. Because the process is done so rapidly, coupled with the persistence, (light-retentiveness of the phosphor), all the single lines are merged into frames, and then perceived, as a **COMPLETE** picture.

The same principle applies to **WIND GENERATORS** (wind-mills/turbines). The **D Q P**, is **VITAL**, when dealing with Wind-mills and/or wind turbines. A **(10) Mile per hour** wind, may generate **(1) KW** of electricity, but a **(20) MPH** wind, can generate **(4)KW** of electricity, according to the **Double-Quadruple Principal**.

In the stratosphere winds are known to blow at **160 MPH** and higher. At that point, the **160 MPH** wind would now produce a **quadrupling** of electricity, by a successive **(4) times** over. That is **10MPH** -(start).... **20MPH**-(once).... **40MPH**-(twice)...then **80MPH**-(three times) and finally **160MPH**-(fourth time).

That translates a former **1KW** generator, into ameaningful.... **1,024 KW**, culminating into a **24,576 KWh**, **behemoth** **per unit!**

Finally, although I have **NEVER** seen the letter **D Q P** used as an acronym, to indicate the term **Double-Quadruple Principle**, that does **NOT** mean that, that phrase does **NOT** deserve the **acronym appellation**..... **IT DOES !!**

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