

# Effective Noise Therapy: A Next Generation Medical Treatment

Souvik Bhattacharjee

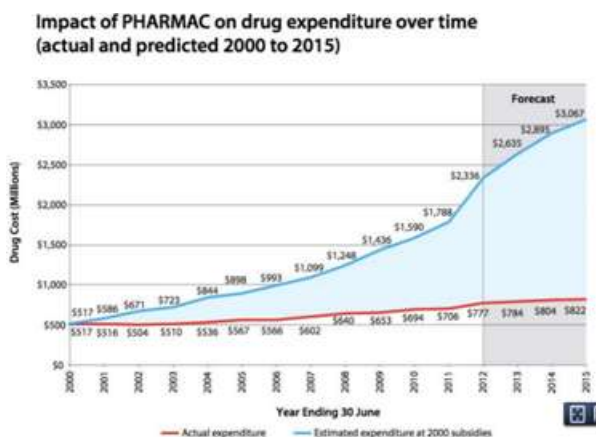
MAKAUT, RCC Institute of Information Technology, 58/223, Narayan Pally, P.O.-Nimta, Kolkata-700049

**Abstract:** This paper is about a complete new technology which will be applicable in Medical treatments and researches later on. In this paper I'll be discussing about utilities of various kinds of noises which will make a new embedded system called "Effective Noise Therapy". This therapy technology will be included computerized noise generation system as well as 4D time-variant artificial effects system. Using this whole embedded system most diseases can be cured including cancer also. Every analysis has been done here using theoretical perspectives.

**Keywords:** Effective, Noise, Therapy, ENT

## 1. Introduction

Now-a-days diseases and illness are common issues to every society. Due to pollution and various kinds of viruses and microbes, the chances of getting ill are rising day by day. As a result, with rising of demands of drugs, the costs of drugs are also getting increased day by day. Also due to addictive nature of some drugs, that affects human bodies sometimes severely. The side effects of those drugs may vary. But as a whole it can be said that drugs provide artificial stimulating immune system which is not very good for health. Not only may those sometimes costly medical treatments not be as effective as it should be. That's why in this paper a completely new technology has been developed here to solve all those previous issues and that will be too much effective to solve any kind of diseases using Noise and 4D Time-Variant effects simultaneously.



Now we come to the point. What does it mean by "Effective Noise Therapy"? First of all, we come to the topic what noise is. Noise is an unwanted signal or a disturbance (such as static or a variation of voltage) in an electronic device or instrument (such as radio or television); broadly: a disturbance interfering with the operation of a usually mechanical device or system. From the definition we are getting noise is already declared as an unwanted signal of lower amplitude and different frequencies. Generally, we use noise cancellation filters to filter out background noise to have better audio experience. But what if we can utilize those unwanted filtered out sounds for a huge purpose? Yes,

it's not any hypothetical concept; we can really use those noises for better and soothing treatment. And that technique is called as Noise Therapy. But during experiments I figured out only noise can't cure them, we were missing something extra which is also working along with those noises for treatment. It was 4-Dimensional Time-Variant Effects which was stimulating our nerves and sensory organs along with those noises. That's why this process is called as "Effective Noise Therapy".

## 2. Methods

To create the whole embedded system, we need to first see what are required to make that thing. First of all, we need a Dynamic Noise Generator circuit to generate noises of any desired frequency.

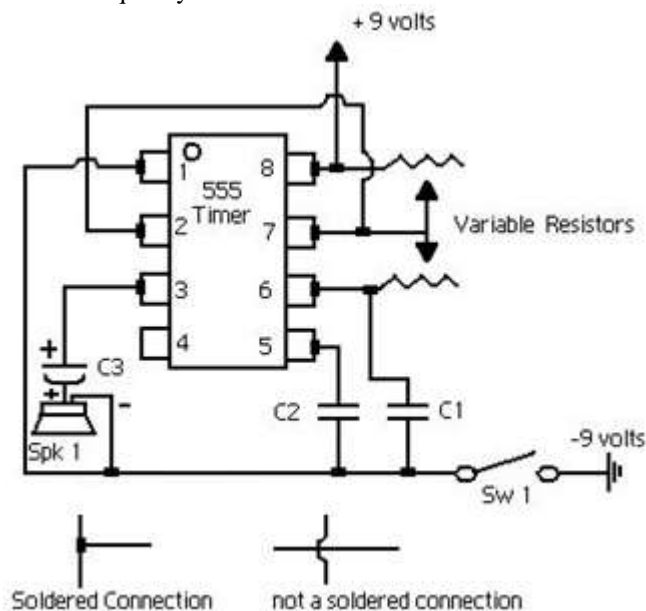
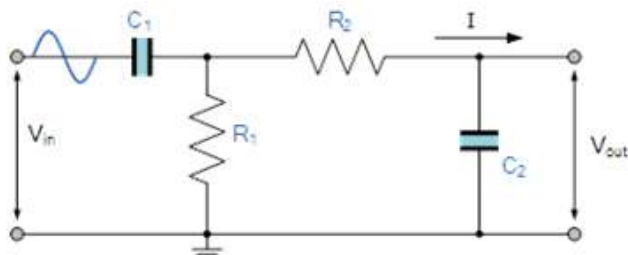


Figure 1: Dynamic Noise Generator Circuit

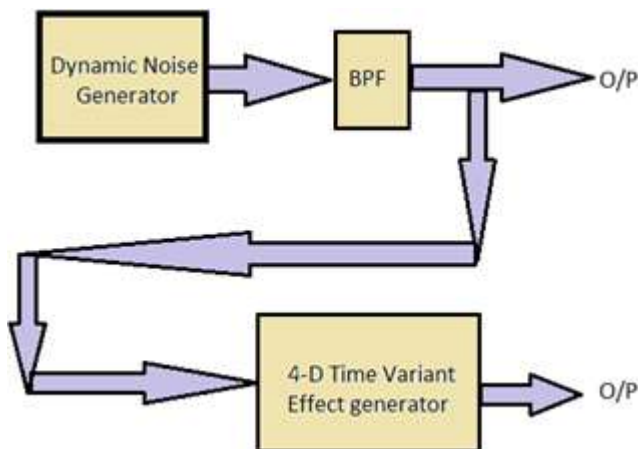
So here we are using 555 timer to generate our desired noise frequency. Here as a source we can use  $\pm 9V$  battery. Variable resistors are used for changing the frequency by changing its resistance value in the circuit. The output signal will be connected to an external speaker.

But for getting more accurate result we need to pass that signal through a Band Pass Filter to filter out the unwanted frequencies. It will help patient to hear more comfortable and soothing sound.



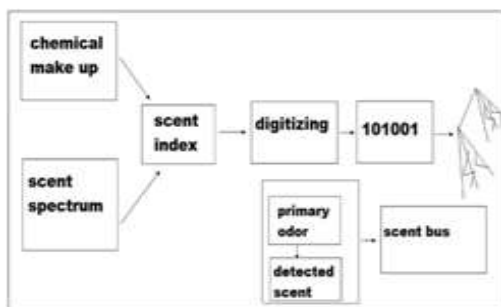
**Figure 2:** Band Pass Filter

Now if we embed all the circuits into system we get this type of block diagram for the whole machine.



**Figure 3:** Block Diagram of ENT Device

Now for implementing effects along with noise frequency with respect to time we need an olfactory transmit technology-based device which can transmit over 10,000 variants of aroma. Vapour generation technology can be also used to create vapours of fragrances and odorants. Such aroma generation systems can be incorporated in virtual reality type systems (training, entertainment e.g. games and movie theatres) to enhance the user's environment.



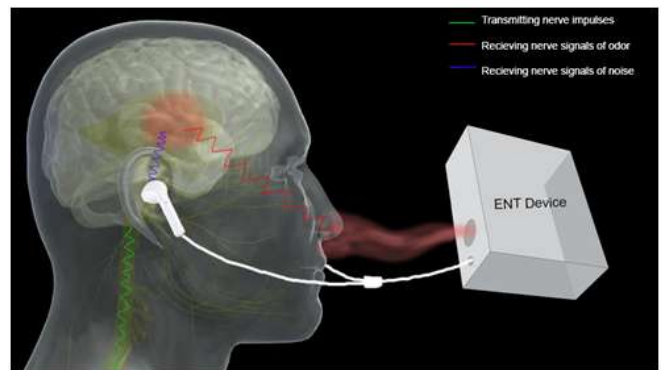
Those who have problem of sensing the smell with their nose or have nasal blockage, they can use E-Nose devices as receptors.

Now the output of Dynamic Noise Generator after passing through a BPF is connected to digital scent technology-based device as input. The device should be programmed in such a way with a microcontroller that effect transmitting

device transmit different kinds of aroma or vapours according to the noise frequency and the disease which is to be cured.

Now coming to the point of how it can cure various kinds of disease. According to some researches our body can generate different types of immune cell using white blood corpuscles to fight against different pathogen materials like virus, bacteria or any antigen material. But it takes time to form immune cell to fight against those pathogen materials and also requires memory cell to store the data in cell for future actions. But what if we can generate those immune cell, activate those immune cells according to our wish at any time. Our DNA has cure for all types of diseases. We can literally generate any kind of immune cell to fight against any kind of disease no matter how severe it is. To fight against every kind of disease we need to follow the following steps:

- First, we need to find out the root of the disease from which the disease is being generated.
- From the database which should be prepared before about all immune cells' activation frequencies, we need to generate that frequency from Dynamic Noise Generator machine and give the input to the microcontroller about what disease is meant to be cure.
- Following that microcontroller will operate the 4-D time variant effect generator to transmit the required aroma or vapours in order to work with the working noise frequency.
- That emitted noise along with aroma sense is received by brains through nerve signals.



- Those nerve signals stimulate brain to transmit another nerve impulse of same frequency of noise signal through our spinal cords.
- Those signals either stimulate the immune cell to be activated or stimulate organs to increase their work efficiency. It also stimulates hormone secretion.
- Activated immune cell creates antibody to fight antigens.

### 3. Experiment

#### Case 1: For treatment of Constipation

Disease	Noise Frequency	Odour/Vapours	Volume	Working Process
Constipation	8100 Hz	Moistures, Cool breeze	<50%	It will stimulate our stomach and then colon and rectum to clean the path by ejecting out stool from our body

#### Case 2: For treatment of Cancer

Disease	Noise Frequency	Odour/Vapours	Volume	Working Process
Cancer (Specially breast cancer, colorectal cancer, and hepatocellular carcinoma (HCC))	460-550Hz	Heat Vapours(~100°C), Burning	>70%	It will stimulate our body to lose fats and calories which will result fasting. Fasting for couple of hours will increase Autophagy of lysosomes which will be used for destroying cancer cells.

### 4. Results

Now coming to the conclusion this new technology for treatment is still in experimental stage. This is just a basic design and concept about how an Effective Noise Therapy device will work. The more we develop this device the more we'll reach at the point of Zero Disease. To reduce the overdoses of drugs and extra money spent on drugs and other chemicals, this therapy is must needed. It will be helpful to the rich people as well as to the poor people because its cost will be in reasonable price. It has no side effects. The main highlighted fact about this technology is we don't need any foreign material to enter our body for treatment. It uses our own body's immune system to fight against every kind of disease. It mainly stimulates our body to do so. Here above experiments are done theoretically and logically. Hope this new technology will soon bring a new healthier world to us.

### References

- [1] Digital scent technology: The Ultimate Step-By-Step Guide ~ By Gerard Blokdyk
- [2] Handbook of Machine Olfaction: Electronic Nose Technology ~ By H. Nagle, Tim C. Pearce
- [3] The Unwanted Sound of Everything We Want: A Book about Noise ~ By Garret Keizer
- [4] <https://www.statschat.org.nz>
- [5] <https://www.merriam-webster.com/dictionary/noise>
- [6] Wikipedia

### Author Profile



**Souvik Bhattacharjee**, MAKAUT, RCC Institute of Information Technology, 58/223, Narayan Pally, P.O.-Nimta, Kolkata-700049