Minutes #19

11/16/18

1:30 PM - 2:00 PM

**Attendance**

Donghyun (David) Seo, Radhanath Purakait, Eric Luu, Shalih Miah

**Absent**

Sobur Carim Sanni

**Discussed about**

- Pulse stimulation

- Boost converter (monophasic or biphasic)

- Control voltage & current at certain limit (below the maximum limit)

- Person’s individual impedance

- Use cause: home use (anxiety and depression)

- CES fisher Wallace (anxiety and insomnia)

- “maybe it doesn’t go on the hair (electrode)”

- Ampule membrane electrode

- “maybe it doesn’t have to be tDCS depending on the use case”

- “how much current and voltage do you really need?”

- “the duration of the current”

- 5 10k filing

- What are these devices doing to the head?

o Amount of current

o The time duration for the current

o Can the same result be achieved with different Voltage and current?

o What current is good enough?

o Cefaly device and Thync device

o Cefaly patent

o noninvasive patent

- Look into other device deeper and how it works (prior art) and then comes concept

o Look into the current they are using

o Duration

o See what waveforms

o Voltage

o The design

o Physiological aspects

o How disposable is the device (“disposability is not a new idea. There are patents for disposable tDCS out there”)

o \*\*\* Do more comprehensive patent search

- Make excel spreadsheet for patents

o Example:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patent # | website | Is it interesting | frequency | DC | AC | Pulse | Disposable | etc | etc |
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