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World's First Conscious Gate Transistor Configurable as an Artificial Neuron or Vacuum State Information Unfolder for use in Conscious Machines
Offer of Exclusive License

Dear Executives, Professors, and Nanotechnology Professionals:

The purpose of this Open Letter is multi-fold and concerns matters of immense public importance.

Firstly, to bring your attention to the world's first Conscious Gate Transistor (CGT) that can be modulated with human volition alone. By "conscious," I mean without the use of any kind of physical tether, like, for example, brain implants, hairnets, radio waves, wires, optics, motion detectors, etc.

Only the first page of subject 72-page patent application is enclosed. To see/download a complete copy, visit https://patentcenter.uspto.gov and enter the application number (17350805). Alternatively, you can visit https://patents.google.com and enter either the above application number or publication number (US2022/0376193A1).

The patent application that is the subject of this letter is US Patent Application No.: **17/350,805**, Publication No .: **US 2022/0376193 A1**, entitled: **COMPLEX NANOSTRUCTURE CONFIGURABLE AS A TRANSISTOR, MULTIPLEXER, OR INFORMATION UNFOLDER**, filed: June 17, 2021, publication date: Nov. 24 , 2022.

I am the sole inventor and exclusive owner of all right, title, and interest to/in the pending patent application. Based on a new science, the pending patent application discloses, among other things, a new kind of carbon nanotube transistor (CNT) that can be modulated using human volition alone. It also discloses a new kind of multiplexer (artificial neuron) built from CGTs and nano-toroid.

Most importantly, especially as the pending patent application relates to AI generally and conscious computers and machines particularly, it discloses a new kind of information unfolder also built from these specially configured CGTs and optional nano-toroid, which is able to extract information from the vacuum state (sometimes referred to as the zero point) and unfold it with the aid of a properly trained artificial neural network such as the HedgeHog Fused Spiking Artificial Neural Network. A poster-sized information sheet of the HedgeHog is available for free download at my repository using the GitHub link under my signature.

Secondly, to raise concerns over the fact that we are fast approaching three years since the filing date of this application and we (the public) have yet to see the first Office Action in this case. According to 35 US Code § 154, the US Government supposedly guarantees to issue a first office action within 14 months of filing an application. One might wonder, why such a long delay?

The only rational explanation I can surmise at the moment is that, if this or that agency of the US Government has authority to screen newly filed applications for security risks and instruct the Director of the USPTO to issue a secrecy order, *a fortiori* it also has the power to instruct the Director to delay issuance of a first office action, so as to postpone, indefinitely, those patent applications that happen to fall thru the cracks of the security screening process. Meaning, I cannot find a statue that limits how long the USPTO can delay issuance of a first office action, and, consequently, the issuance (and thereby commercialization) of a patent.

Thirdly, to explain why I am doing this. I'm afraid the United States will lose its competitive edge if our scientists and entrepreneurs don't take action now to develop and employ this new science in the world's first conscious machines—before other competing countries beat us to it. You can be certain they are working on it.

Finally, for your information, there is a ThoughtChip “pitch-deck” located in my repository at GitHub that explains in simple terms how the CGT works and also how to prototype one stack-mounted on an Analog Devices AD8229 instrumentation amplifier. On the last page of the pitch-deck is a list of hyperlinks to related documents, including a References list used in the research.

If some or all of you would be interested in forming a consortium named “ThoughtChip” or something similar, I would be pleased to exclusively license the consortium all my substantive rights in and to the patent, pre and post-issuance, with terms to be negotiated.

I thank you for your time and consideration.

Sincerely,

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(54) **COMPLEX NANOSTRUCTURE CONFIGURABLE AS A TRANSISTOR, MULTIPLEXER, OR INFORMATION UNFOLDER**

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(57) **ABSTRACT**

A complex nanostructure, which includes a first nanostructure component having at least one aperture in a side thereof; at least one second nanostructure component having a first end and a second end, wherein the first end of each of the at least one second nanostructure is inserted through a corresponding one of the at least one aperture in the first nanostructure, thereby forming at least one junction. Embodiments of the complex nanostructure include a bifurcated nanostructure transistor constructed of linear carbon nanotubes, a multiplexer constructed of a circular carbon nanotube and multiple linear carbon nanotubes, and an information unfolder constructed of linear or a combination of linear and circular carbon nanotubes. The nanotubes may optionally be decorated with genetic material such as single-strand or double-strand human DNA segments and/or may be modified by e-beam or ozone gas to add defects into the nanotubes to alter electrical/functional characteristics.