**Respiration coin**

**The future of cryptocurrency mining**

**Created by**

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**Executive summary**

Respiratory coin is the first decentralized cryptocurrency mining network built on Ethereum that enables mining through the breathing process of human beings. The respiratory coin will power the platform enabling miner to earn crypto coins based on hashing power they produce by breathing. The process is simple and entails people using the Nuvo-air device for tracking the amount of lung capacity breath capable of being used as hashing power to mine cryptocurrencies. Users can easily follow their earnings and lung capacity through phone app. This is a revolutionary product that is expected to shift the focus from expensive and environmentally destructive proof-of-work mining. Furthermore, more people will be able to participate thereby directly contributing to healthy lifestyles as people exercise in order to improve their lung capacity.

**Vision**

To create a coin that can be mined by the quality of breaths an individual takes by using Nuvo Air device.

**Introduction**

As human beings, breathing is one of the effortlessly-done things that we have never given much thought about. It is estimated that human beings breathe 1 billion times throughout their lifetime. For the first time, it is possible to turn the breathing process to an economic model whereby every living being becomes and economic agent.

Up until now, living a healthy lifestyle did not have direct monetary benefits to a person other than the health benefits of staying alive for longer. Furthermore, despite the energy produced through our breathing process, no one has effectively tapped into it. We are are proposing a respiratory currency that rewards healthy lifestyles. With the use of the Nuvo-air respiratory equipment, it is possible to measure respiratory health and translate that to economic benefit.

Nuvo-air is the leading supplier of home spirometry products especially for people with berating problems. Nuvo-air home spirometry technology enables gathering of real-time breathing condition of a person while at home. It is designed to be used and deployed in real time enabling own electric patient-reported outcomes (ePROs). Whereas Nuvo-air breathing technology is designed to promote breathing for those with breathing problems, it can still be used for those without breathing problems.

We will use Nuvo-air breathing devices for measuring the quality of breaths. The breaths are then transformed to hash power and used to mine cryptocurrencies. Therefore users will be encouraged to adopt deep breathing because it generates more energy and thereby increasing their ability to earn. Furthermore, as users adopt deep breathing, they improve their health through exercises such as running. Therefore the model is a win-win-win for the company, the users and the environment.

Coins such as sweatapp are great at using geomining to promote health and wellness. We would like to create a new platform of biomining that promotes deep breathing as a way to promote health and wellness.

**Why blockchain**

Blockchain is one of the technologies that has gained massive growth in the last decade since the introduction of Bitcoin in 2009. Blockchain enables peer-to-peer way of transferring value through a decentralized and trust-less process. The success of Bitcoin as a decentralized cryptocurrency has resulted in other projects that seek to use the blockchain architecture in order to power the new wave of internet growth. One of the ways is through cryptocurrencies. Apart from Bitcoin, there are thousands of other cryptocurrencies in the market. They are solving different problems such as with computer storage, online trading, smart contracts, social media, and money transfer among others.

The reasons for choosing blockchain is because of the believe that it will propel the next wave of internet of value. This is meant to unlock immense value as new industries are being formed on top of the blockchain. Digital assets are becoming a new asset class. Unlike the previous form of internet which is largely controlled by centralised parties, blockchain promises to decentralized power, value and information enabling people to directly transact and interact with each other. Furthermore, the value created by people should belong to the people. Blockchain enables a way to incentivize people based on their efforts without the need of a central party to monitor. This in turn enables people to rebuild value exchange from the ground up and empowers communities since they are incentivized to perform certain behaviours.

Therefore respiratory coin believes that the blockchain model of having decentralized architectures of the internet will power growth in many industries. Many more applications of blockchain are expected to be unearthed. At the centre of many public blockchains is mining of cryptocurrencies. Cryptocurrency mining model is at the centre of growth of blockchain. Respiratory coin wants to be the technology that will power cryptocurrency mining process for people all over the world.

Currently, mining processes are concentrated among a few people with powerful mining architecture. Mining pools have emerged and they continue to exert pressure on small scale mining such that it is no longer profitable to mine cryptocurrencies as an individual. However, with respiratory mining the true power of decentralized mining process will now be achieved.

**Currency mining**

Respiratory coin will use spirometer for crypto-mining through the process of lung expiration. The Nuvo-air breathing technology has the capability of measuring the history of breath of the user and performs computational labour output of the device. The lung capacity of the user will determine the amount of energy generated through air pressure. The pressure will in turn be converted to energy that used to mine cryptocurrencies. High lung capacity will translate to higher hash rate. As the hash rate increases, the mining power increases and thereby increasing the earnings of the user.

**Product architecture**

The idea behind respiratory currency is there should be more energy efficient ways to maintain blockchains. An old experiment was done that showed it was possible to use exhaled breath to hash rate that can be used to run computers. Having being tested on various applications, it is now time to bring this technique to mining of cryptocurrencies. The product architecture hypothesises that instead of using ASIC mining equipment, spirometers and breathing apparatus are the new mining equipments. This completely changes the whole process of cryptocurrency mining for the better.

**Ethereum exchange**

The coin will be based on Ethereum ERC-20 protocol. ERC 20 is a set of guidelines that enable integration of different currencies on one protocol. Users on Ethereum platform can therefore interchange with other tokens easily

**Smart contracts**: Ethereum allows for building and execution of smart contracts that are able to automatically calculate the amount of coins to be distributed to a miner. They are efficient, fast and easily scalable. In addition, smart contracts can be programmed to execute certain activities when set of conditions is achieved. This would eliminate need for constant monitoring and also eliminate cheating.

**ICO platform**: Ethereum has been successful as a platform for conducting crowd sales. Since majority of the decentralized applications are on Ethereum, users can easily get in without having to undergo a complicated process. Some of the most successful ICOs have been launched on the Ethereum platform. It is expected that Ethereum will continue to play an important role in the future for ICOs.

**Technical description of the product**

The most commonly used means of crypto-mining is through proof-of-work (PoW) architecture. POW works in such a manner that miners compete to solve mathematical puzzles and by being first are rewarded by crypto coins. Each verified transaction is added to a block therefore forming a string of blocks through the process of hashing. Hashing rate is the unit used for measuring the speed of computer processing power. In crypto-mining it is the speed of mining cryptocurrencies. The higher the hash rate, the higher the rate of mining, the more the returns.

For effective mining of a block, a miner should vary the block headers in order to arrive at a given target (hash). Several attempts (for that purpose) have to be made and the numbers of attempts per second are called hash power or hash rate.

Hashes are measured in hashes per second (h/s).

For example, if a computer has 60 hashes per second, it will make 60 guesses per second in trying to solve a block.

Currently, the hashing power for mining bitcoin is very high and since 2013, it has exceeded 1 Petra Hash per second which is equivalent to one quadrillion hashes per second. This has resulted to fierce debate about the environmental damage as a result of using the proof-of-work mining method. Furthermore, the cost of acquiring and running the specialised mining hardware has become very expensive. Ordinary people are therefore excluded from participating in the mining process. Adoption of respiratory based mining process is not only cheaper but also environmentally friendly.

**Competitive advantage**

**Ability to use through phone app by way of portable spirometer:** as a user, you can download spirometer phone app that lets you track your breathing process. Furthermore, you can extract data on an excel sheet about your breathing performance and the results. This can help you keep track of your breathing and by extension your health on the go.

**Energy efficient**: The first and most important competitive advantage of respiratory currency mining is energy efficiency. For a long period of time since proof of work mining through ASICS was introduced, tens of report have come out showing that the mining process is negatively affecting the environment. Now, with respiratory mining, that debate is set to change and more people will adopt the process.

**Cheaper**: respiratory mining is also cheaper because the equipment and the setups needed

**Health concisions**: respiratory mining motivates people to undertake healthy activities such as running in order to increase lung capacity. Health is also another major issue affecting the world today with many activities resorting to unhealthy lifestyles. However, people with stronger lung capacity will be able to contribute more pressure and energy to mine crypto and thereby earn more income.

**ICO details**

Name: Respiratory coin

Ticker: RPC

Coin type: ERC20

Max supply: 100,000,000

Token sale: 70,000,000

Hard cap: $50,000,000

Soft cap:2,500,000

Token price: $0.05

Accepted currencies: ETH, BTC.

**Token distribution**

75%: token sale

10%: Team

7%: investors and advisors

8%: marketing and bounties.

**Use of funds**

10% development of the blockchain

30%: ewallet and mobile application

30%: spirometry technology

10%: legal expense and audit

20%: administrative expenses.

**Roadmap**

Q4 2018: release of whitepaper

Q1 2019: research and development: testing out Nuvo-air kits

Audit smart contract and mobile app

Partnerships and beta customers

Q2 2019: Launch of ICO.

**Team**

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You as a user understands the risk that Respiration Coin will not be widely adopted, which could impact the functionality, usability, and utility of Respiration Coin negatively, for example, the value of Respiration Coin and our Tokens as a whole. You as a user bears the risk of security weaknesses, individual or groups of hackers and the theft of (personal) data. Another risk is the technical advance of cryptography as technology or any other future developments, computer engineering technology that could result in the theft, hacking or loss of your Token. Unanticipated combinations or variations of the abovementioned risks, as well as the emergence of new unidentified risks, can result in the malfunctioning of Respiration Coin and loss of your Tokens.

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