

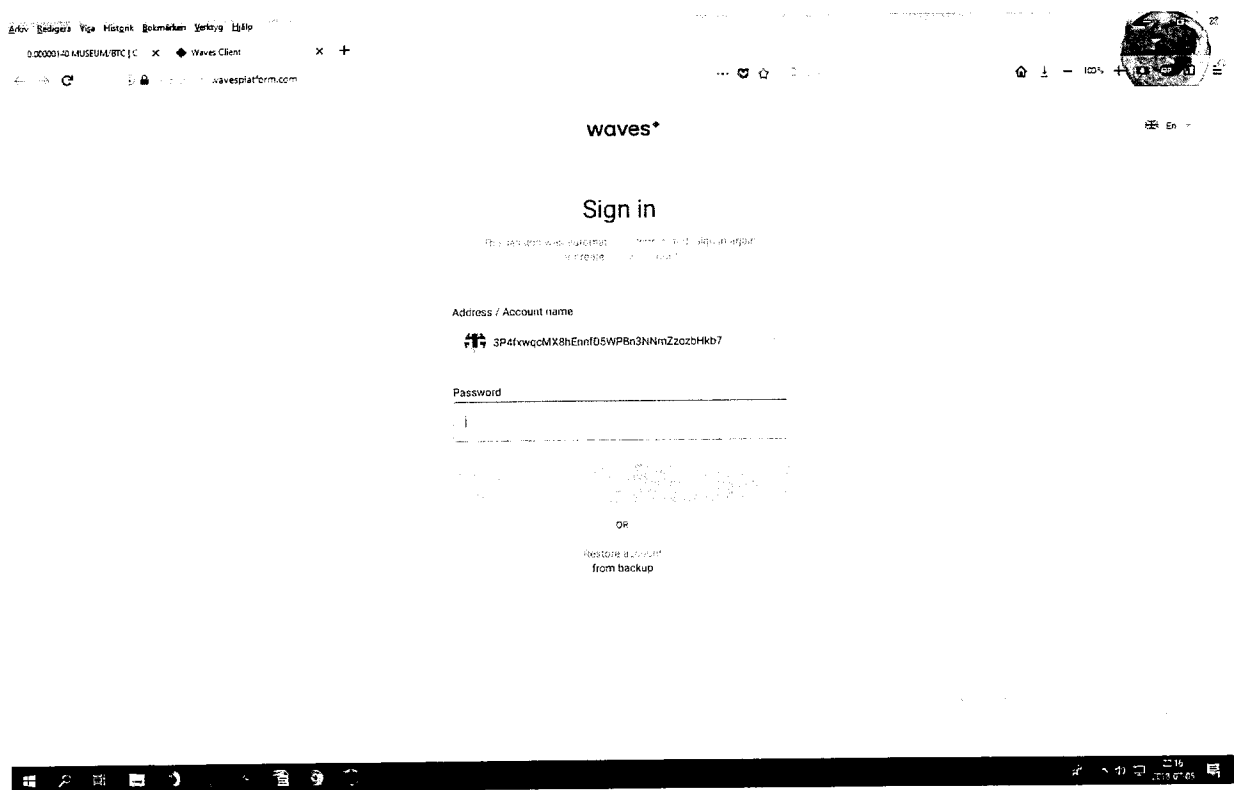
Det här dokumentet beskriver Marquise Museums affärsmetod för att handla med fysiskt gods på blockchain. Resterande text skrivs på engelska för video konvertering genom engelsktalande kollega.

1. The first thing we want to do when using the Marquise Museum Dual chain system is to visit this page and register in order to access a token creation tool on top of waves platform:

<https://wavesplatform.com/>

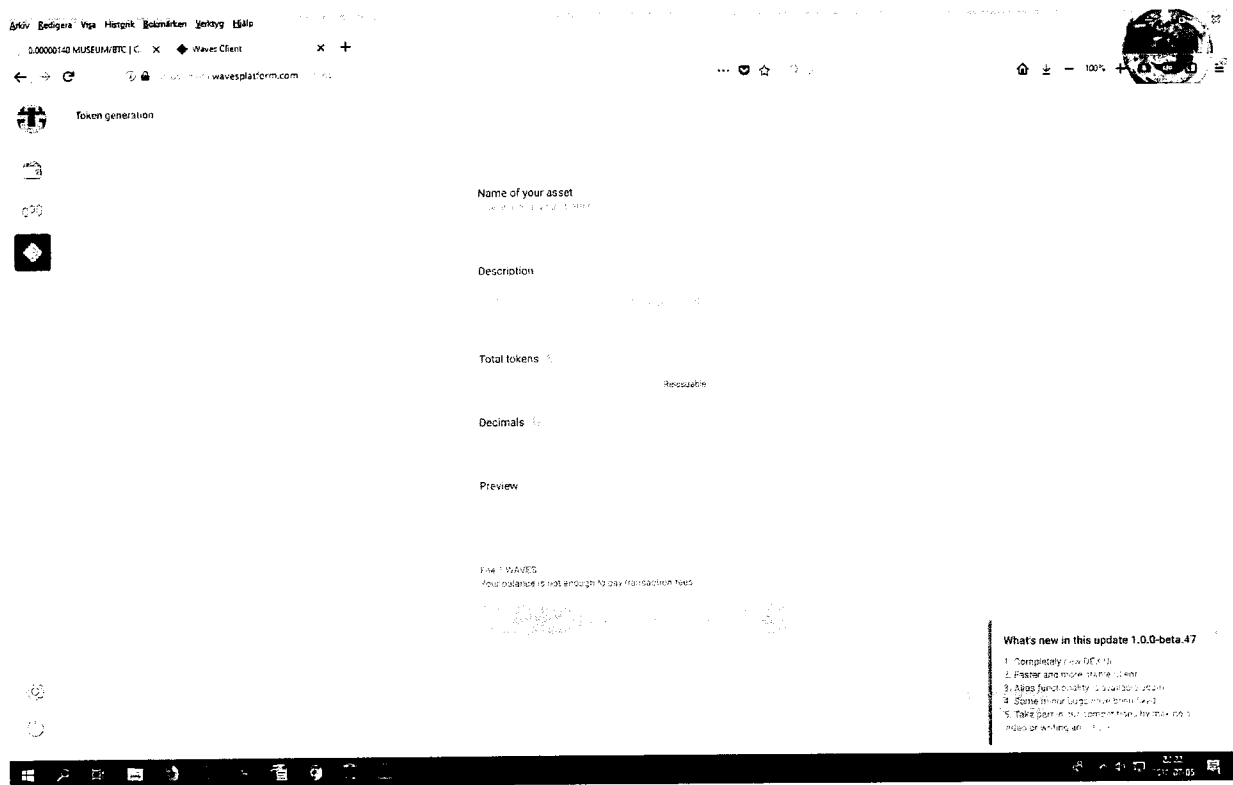
It is important in the patent demand to explain that waves is only one type of platform for this method, there are two others (Counterparty for bitcoin and ethereums ECR-20 tokens), and it is likely that many more brands will come in the future using the same model. Therefore, we want the demand to include all these future platforms and private blockchains, this is not specific to waves, waves platform is only used as an example for the prototype brand because it is the most user friendly.

Figure 1 (registering your account on Waves)



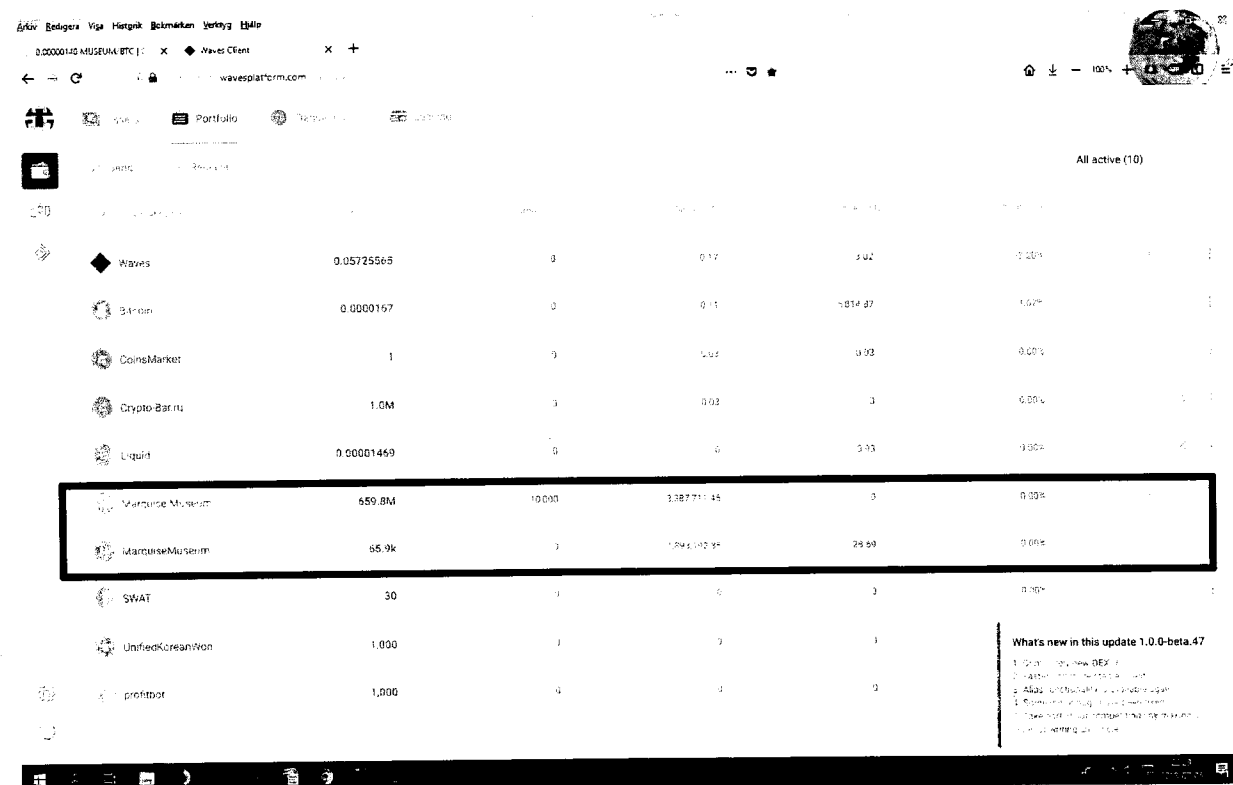
2. Now that we are inside the Waves platform, token issuance is enabled in the left user field by clicking the third symbol. Here, we can decide the parameters of our new token. Before the Marquise Museum's immaterial business solution, no one else knew how to use this type of token with physical products. As you can see, because this is a dual chain patent pending method, we will have to perform this token issuance two times: 1 for the currency class which in the Marquise Museum prototype brand is set to 660 000 000 to represent 10 000 tokens per redeemable product, in this case a cryptobook, and the second will be issued at 66 000 in this case to represent each book, as the asset class token and validator that is sent to customer after they buy the item. Thus, we have created a system of 1 centralized token (the validator/asset class) and 1 decentralized token (the currency class, which is accessible for the general public immediately through crypto exchanges).

Figure 2 (issuing tokens in accordance with the dual chain system)



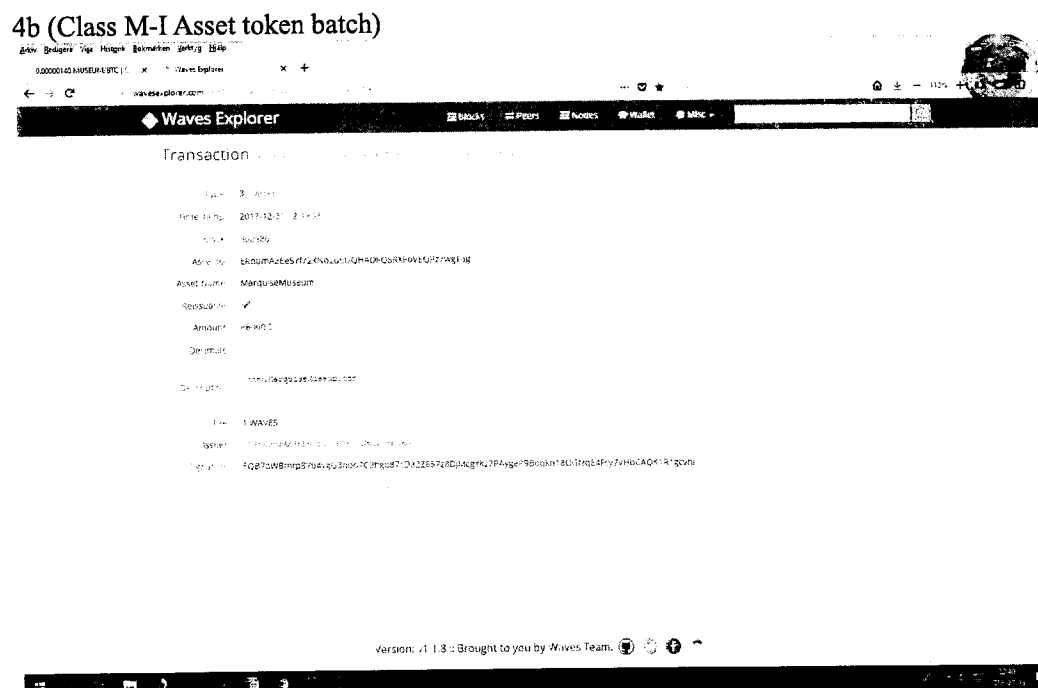
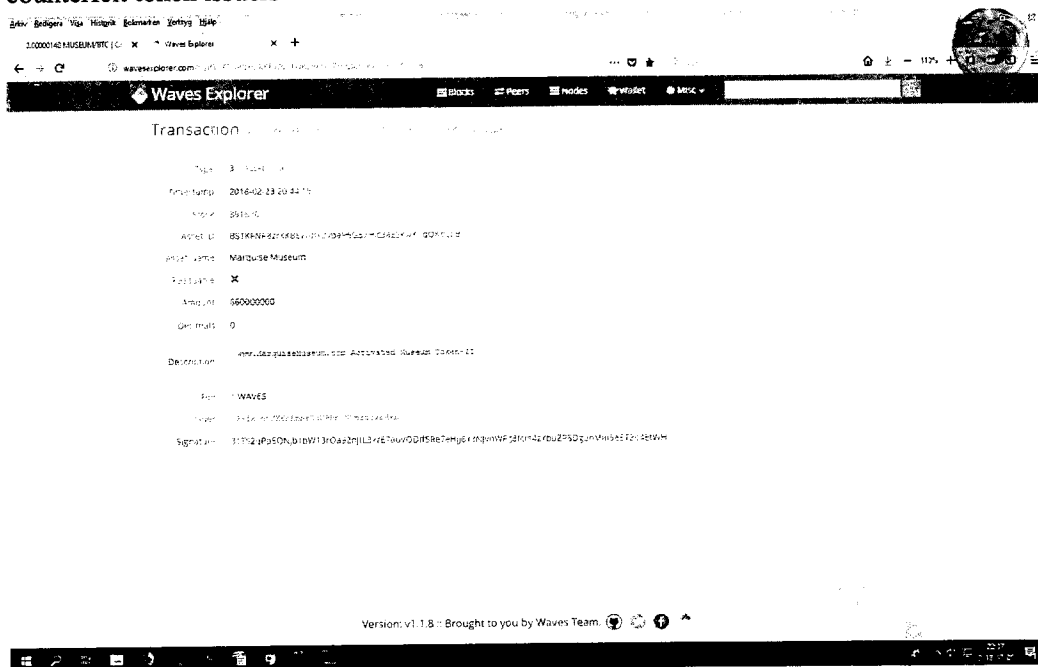
3. Now that we have issued the tokens, we can see that they are instantly available in the wallet and ready to be sent to exchanges and clients all over the world.

Figure 3 (information about your new tokens is visible in your wallet)

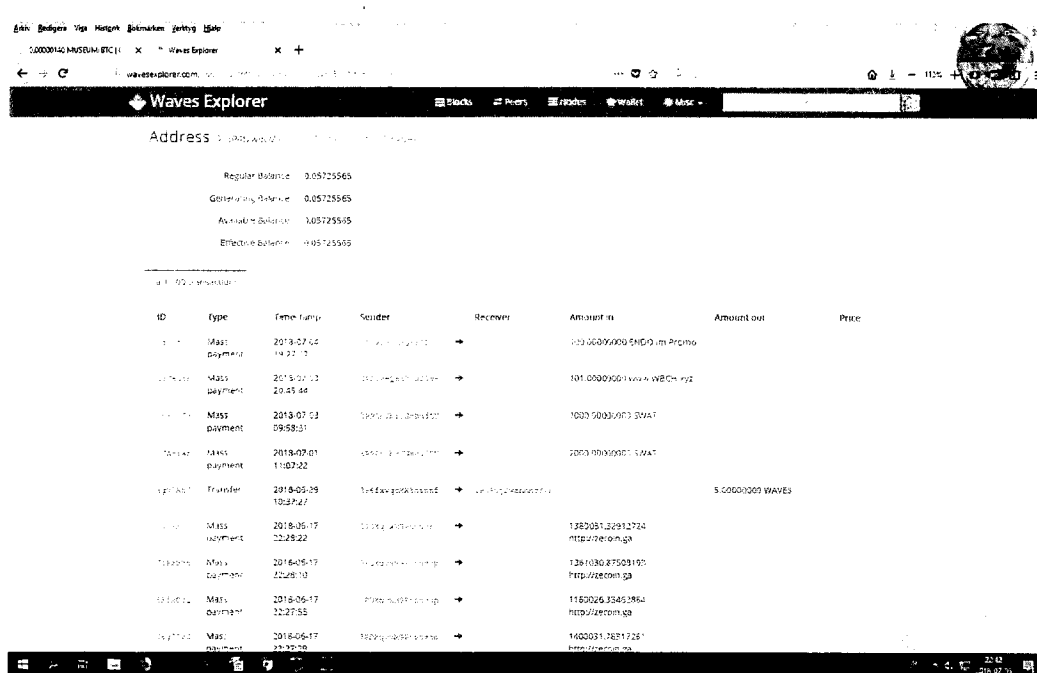


- Now that you have your tokens, you also received your very own explorer where all future transactions can be tracked. Because this is blockchain, it is very easy for customers trading products in the second hand market with others, for example on ebay, to verify that their product purchase is genuine by tracking the tethered token back to this explorer which shows exactly when this brands tokens were issued. However, due to the sheer volume of trades that occur on this explorer info, it would be impossible for brands to know which customer received which token and when. And thus, we want to separate that burden into two chains, 1 centralized where all tracking is controlled, and 1 decentralized that works with the free market to attract new customers and leverage as tradable global currency pegged to physical product. This system is unlike anything else on the blockchain and has potential to lay the founding blocks of an entire future industry.

Figure 4a: the batch of 660 000 000 class M-II currency tokens with time stamp to ensure validation against counterfeit token issuers

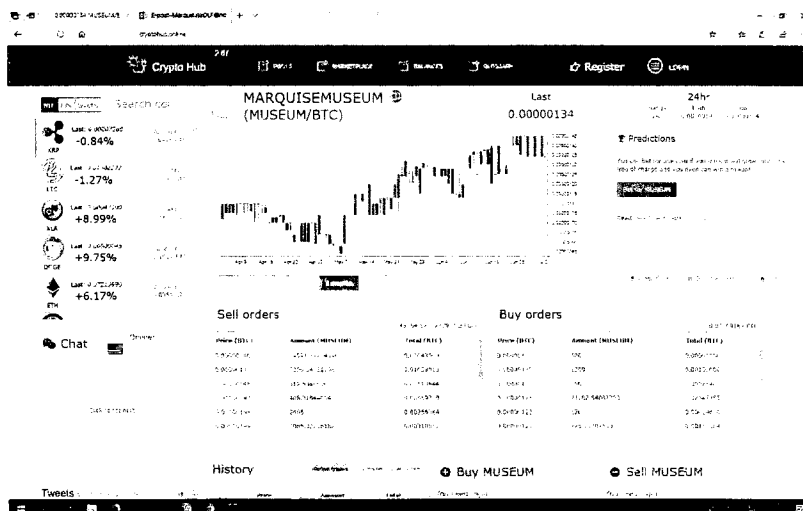


4c. Demonstrating tracking index in token explorer derived from the issuer party waves wallet address



- In the above image several transactions are recorded. Some of these are direct transfers from the company to the client, and some are transfers from the company to other companies such as crypto exchanges. Let's go ahead and take a look at the process whereby Marquise Museum tokens reach the free market. Remember, we have 2 tokens, 1 for the free market, and 1 to keep in our personal wallet, in this case on waves platform. Since the company controls the asset token, there can be no interference from customers who are trying to defraud the company by buying tokens, redeeming expensive product, and then sending the tokens to a friend who can repeat the action. With the dual chain system (patent pending), the company retains logistic control over tethered products, and thus the value distribution supply chain. The important of the currency token is to maintain market liquidity and easy access while also acting as a marketing vehicle by high visibility outwards, and of course to be used as an immutable alternative to the fiat currency system. Whereas currencies such as bitcoin, are untethered and subject to high volatility that decreases the use case as viable currency, the dual chain system is pegged to product at a specific price point to ensure low volatility and good use case as a high liquidity currency.

Figure 5, a cryptoexchange has received our tokens and they are now ready to buy and sell on the exchange platform which is open to the free market and anyone can join.



- If a user acquires 10 000 \$MUSEUM, they are eligible to redeem physical product, in this case the Pimp Fashion cryptobook. The customer redeem process is specific to the Marquise Museums patentable business method and follows a highly structured model of exchange with the company. It includes the transfer of M-II currency tokens/certificates back to the issuing wallet as we remember from the explorer in figure 4c. Then, company will collect personal shipping information from the customer in order to dispatch product, along with a second certificate/token; the M-I Asset, which users must save in their wallets in order to validate that the product is genuine, in the event that they would like to resell it at a future date in the second hand market, or if there is some other concern such as item defect. Lastly, the original batch of 10 000 M-II currency tokens are "burned" from the market. A burn means that they are placed in a transaction that goes into a non-existent wallet, thus they cease to exist and cannot be used again. This deflationary system is part of the patentable business method with the function to deplete the market of M-II currency whenever product is redeemed, at a rate of 1000 redeemed books per year or 1.5% deflation, the Marquise Museum project will be completed in 66 years which is a very good life expectancy for an alternative currency system. Meanwhile, the M-I Asset class token, remains forever with the potential of increasing in value over time if physical product is also in mint condition. Imagine if famous 20th century artists that have been copied millions of times, had access to the dual chain system, how would their artworks be valued with the knowledge that the item was 100% authentic? Would there even be a need for centralized auctionhouses to perform a validation procedure prior to listing? The Marquise Museum Dualchain system brings many synergies to world industry, perhaps the true extent of which lays beyond what is described in this document.

Figure 6a: user has acquired \$MUSEUM that he wishes to redeem in return for product

The screenshot shows the CryptoHub website interface. At the top, there is a navigation bar with 'Crypto Hub' and various menu items like 'POOLS', 'MARKETPLACE', 'BALANCES', and 'GLOSSARY'. Below this is the 'Profile' section, which includes settings for 'Two factor authentication: Disabled' and 'Email withdraw confirmation: Disabled'. A 'Your rating' section shows five stars. The 'Estimated equivalent' is listed as 0.19491010 BTC / 1 269.80 USD. Below this is a table of assets:

Coin	Search	hide zero balances	Available balance	In Orders	Unconfirmed Pools - deposits	Operations
BTC	Bitcoin		0.00091064	0.03117667	0	deposit withdraw
MUSEUM	MARQUISEMUSEUM		81211.85838477	44036.44004208	0	deposit withdraw

At the bottom of the page, there is a system tray showing the date and time as '2017-07-05 12:00:05' and a status message 'Servers normal work'.

Figure 6b: User contacts the company through website with a redeem request and supplies shipping information and \$MUSEUM wallet address to ensure that it is the same person who delivers tokens that also is making the order in case of large customer traffic which is expected with fortune 500 brands.

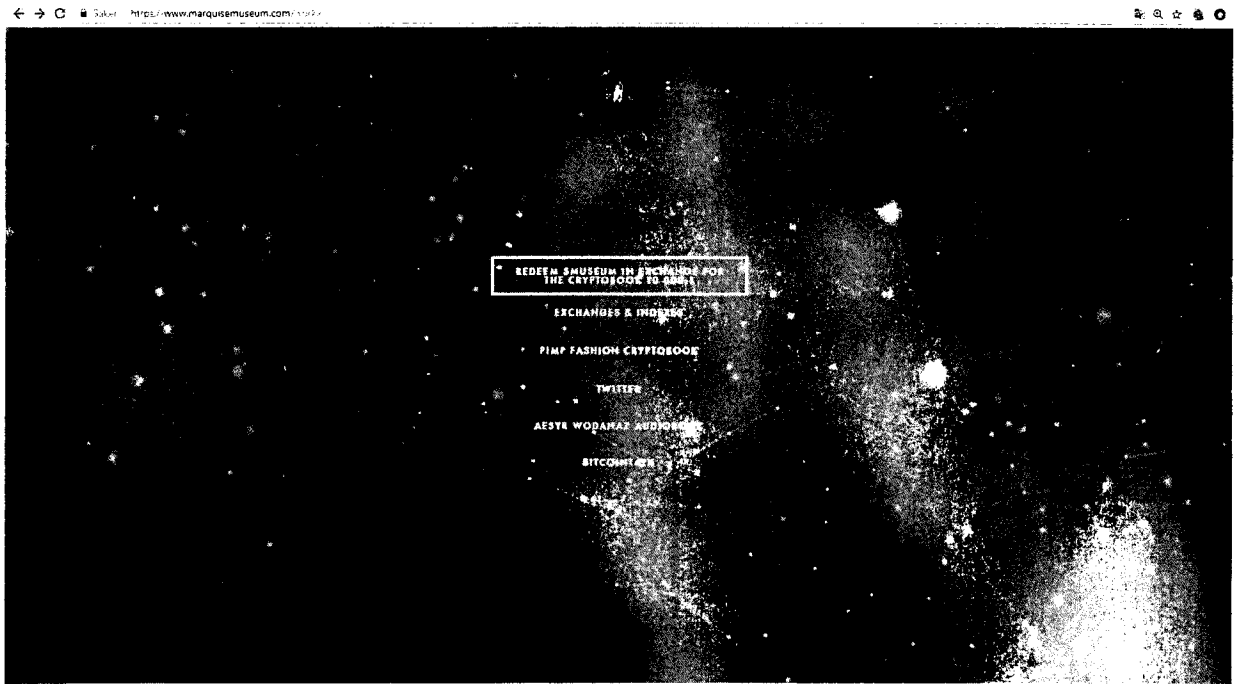


Figure 6c redeem/order form



- The process is now complete, the customer received his M-I validator token along with product that will soon arrive to a specified shipping location.

Figure 7 Demonstrates company preparing to send validator token to customer wallet

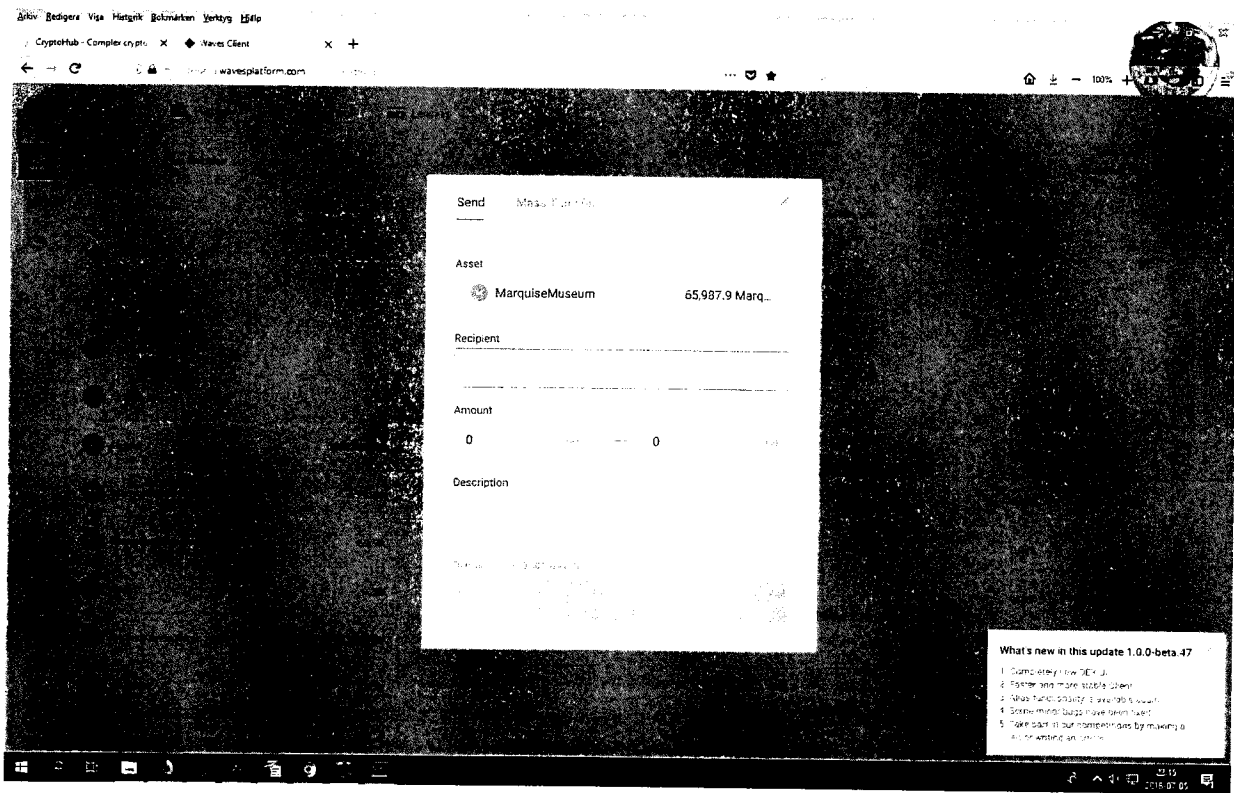
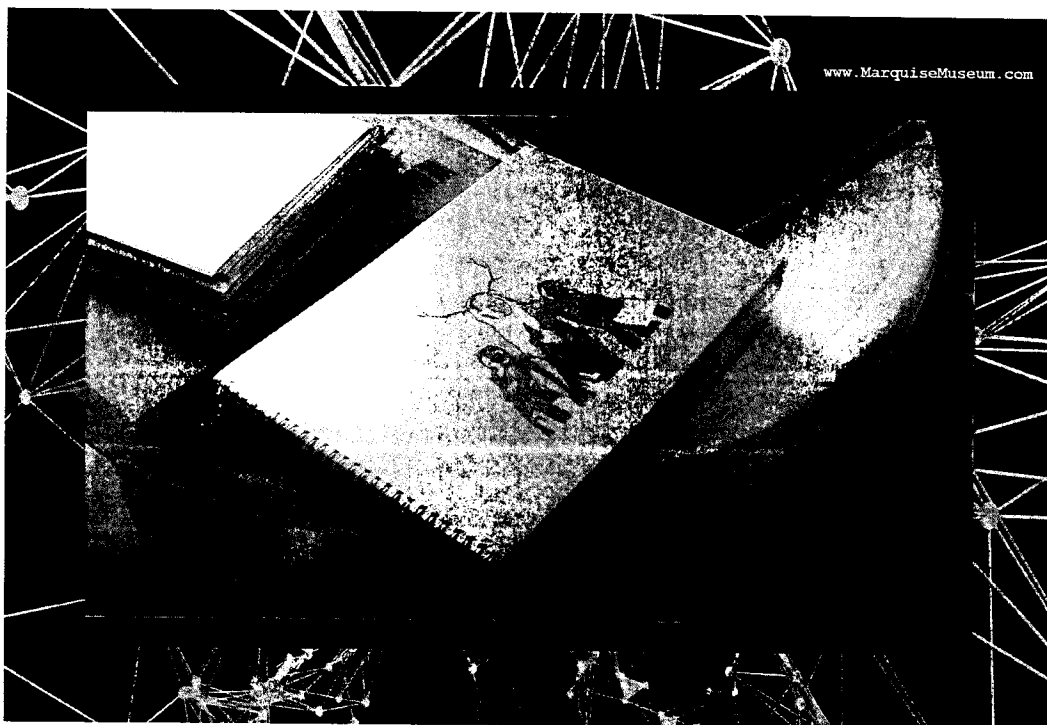


Figure 7b: Demonstration of physical product tethered to the Dual chain patentable business method, paving the way for economy & money 2.0



Technical contributions with this invention:

- Point 1: Tethering a physical product with a blockchain token at a specific price interval based on the manufacturing cost of product, enables a use case for a global currency with less volatility than bitcoin. The novelty of the Marquise Museums Dualchain method entails a combination of this statement with point 2:
- In order to prevent users from abusing the system, there are two tokens issued instead of one, this will affect user behaviour to conform to the rules of the new system
- Point 3: Tethering physical product on blockchain using the Dualchain system, enables 100% immutable verification of product authenticity due to inherent characteristics of distributed ledger as a decentralized validation tool.
- Point 4: The Dualchain Method enables value migration of physical good to blockchain by issuance of two tokens to represent high liquidity currency and low liquidity asset.
- In combination, these contributions enable a new pattern of trading physical goods on the blockchain, that was not previously possible, a claim should view the application holistically with inclusion of all moving parts into a patented business method and technological contribution in the field of crypto currencies, blockchain, logistics and cryptography. Categorized under Section G/Fysik G06: Affärsmetoder G09: Kryptografi

Introduction to blockchain:

A blockchain is a decentralized, distributed and public digital ledger that is used to record transactions across many computers so that the record cannot be altered retroactively without the alteration of all subsequent blocks and the consensus of the network. This allows the participants to verify and audit transactions inexpensively. A blockchain database is managed autonomously using a peer-to-peer network and a distributed timestamping server. They are authenticated by mass collaboration powered by collective self-interests. The result is a robust workflow where participants' uncertainty regarding data security is marginal. The use of a blockchain removes the characteristic of infinite reproducibility from a digital asset. It confirms that each unit of value was transferred only once, solving the long-standing problem of double spending. Blockchains have been described as a value-exchange protocol. This blockchain-based exchange of value can be completed quicker, safer and cheaper than with traditional systems. A blockchain can assign title rights because, when properly set up to detail the exchange agreement, it provides a record that compels offer and acceptance.