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Object: Work of Science – Concept of Digital Assets Investments Strategy of Infinity Technologies Fund
Web-address: https://interoco.com/all-materials/work-of-science/4060-assets-investments.html

International Online Copyright Office

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WORK OF SCIENCE

**Concept of Digital Assets
Investments Strategy of
INFINITY TECHNOLOGIES FUND**

INTEROCO Copyright Office – 2022

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Works of science as intellectual property (copyright) object are stipulated in:

1	<p><u>Berne Convention for the Protection of Literary and Artistic Works</u> (1971)</p> <p>Article 2. Protected Works:</p> <p>(1) (1) The expression “literary and artistic <u>works</u>” shall include every production in the literary, <u>scientific</u> and artistic domain, whatever may be the mode or form of its expression, such as books, pamphlets and other writings; lectures, addresses, sermons and other works of the same nature; dramatic or dramatic-musical works; choreographic works and entertainments in dumb show; musical compositions with or without words; cinematographic works to which are assimilated works expressed by a process analogous to cinematography; works of drawing, painting, architecture, sculpture, engraving and lithography; photographic works to which are assimilated works expressed by a process analogous to photography; works of applied art; illustrations, maps, plans, sketches and three-dimensional <u>works</u> relative to geography, topography, architecture or <u>science</u>.</p>
2	<p><u>United Arab Emirates</u></p> <p>Federal Law No. 38 of 2021 On Copyrights and Neighboring Rights</p> <p>Article 1. In applying the provisions of this law, the following words denote the definitions explained before each one of them, unless the context denotes otherwise: “The <u>Work</u>” - any created compilation, in the scope of letters, arts, <u>sciences</u>, whatsoever is its type, mode of expression, value or purpose.</p>
3	<p><u>United Kingdom Copyright, Designs and Patents Act</u> (1988)</p>

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	<p>Part I 'Copyright'. Chapter I, Article 1. Copyright and copyright <u>works</u></p> <p>(1) Copyright is a property right which subsists in accordance with this Part in the following descriptions of <u>work</u>: (a) original literary, dramatic, musical or artistic works; (b) sound recordings, films or broadcasts, and; (c) the typographical arrangement of published editions.</p> <p>(2) In this Part "copyright work" means a <u>work</u> of any of those descriptions in which copyright subsists.</p> <p>(3) Copyright does not subsist in a work unless the requirements of this Part with respect to qualification for copyright protection are met (see section 153 and the provisions referred thereto).</p> <p>Article 143 (b) section 60</p> <p>Abstracts <u>of scientific</u> or technical articles</p>
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According to above mentioned laws in the UK and UAE work of science, as an object of copyright, should:

- Be the result of creative activity.
- Exist in any objective form.

Considered a work of science – “**Concept of Digital Assets Investments Strategy of Infinity Technologies Fund**” meets to the definition of an object of copyright according to:

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- Section 2 (Works under protection) of the Federal Law Number 38 of 2021 of the **United Arab Emirates** on “Copyright and Neighbouring Rights”;
- Chapter I, Articles 1, 143 of **United Kingdom** Copyright, Designs and Patents Act (1988) Part I ‘Copyright’.

The result of creative activity, innovation, relevance, scope of work of science - **“Concept of Digital Assets Investments Strategy of Infinity Technologies Fund”** is listed in this publication and confirmed by a certificate of deposit of copyright works.

The study of objective form of current work of science through materials research and examination of the object on the criteria for copyright eligibility held:

**Intellectual Property Expert,
Authorized Representative
of INTEROCO Copyright Office**

Dr. Sandjar Muminov

(signature, stamp)



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Thus, the work of science - **“Concept of Digital Assets Investments Strategy of Infinity Technologies Fund”** aims to create a better world by investing in assets and companies that have valuable products and make it possible.

Consequently, His Excellency Awad Mohd Sheikh Majrin Bin Sultan, Farhan Qadir and Ilya Churakov, (the founders of Infinity Technologies Fund) felt that it is their mission to develop a new space where people can invest in various technological economic systems. Moreover, they have supported the 17 sustainable development goals adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet and ensure that by 2030 all people enjoy peace and prosperity. It is important for ITF that their investments in various technologies will have a positive impact.

Thus, the birth of Infinity Technologies Fund (ITF). It is on this platform where investors can work in partnership ranging from Venture Capitalist to different types of investors in the right transparent way and build a new technological economic system wherein there will be big opportunities available and to grow very fast.

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II. BASIC DEFINITIONS

Work of Science	is an object of intellectual property, registered as copyright work according to the Berne Convention for the Protection of Literary and Artistic Works.
Venture Capital (VC)	is a form of private equity financing that is provided by venture capital firms or funds to startups, early-stage, and emerging companies that have been deemed to have high growth potential or which have demonstrated high growth (in terms of number of employees, annual revenue, scale of operations, etc)
Equity	In finance, equity is ownership of assets that may have debts or other liabilities attached to them. Equity is measured for accounting purposes by subtracting liabilities from the value of the assets.
Risk management	is the identification, evaluation, and prioritization of risks (defined in ISO 31000 as the effect of uncertainty on objectives) followed by coordinated and economical application of resources to minimize, monitor, and control the probability or impact of unfortunate events or to maximize the realization of opportunities.
Digital Asset	is anything that exists only in digital form and comes with a distinct usage right.

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	Digital assets include but are not exclusive to: digital documents, audible content, motion picture, and other relevant digital data that are currently in circulation or are, or will be stored on digital appliances such as: personal computers, laptops, portable media players, tablets, data storage devices, telecommunication devices, and any and all apparatuses which are, or will be in existence once technology progresses to accommodate for the conception of new modalities which would be able to carry digital assets; notwithstanding the proprietorship of the physical device onto which the digital asset is located.
Portfolio management	refers to earning money by putting assets into different types of investments. The idea of portfolio management comes from portfolio theory. This theory says that a person can reduce the risk of investment by having a diversified portfolio that has different types of securities of which some of them may cause a great return on the investment.

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III. ANALYSIS OF CLOSEST ANALOGUES

Analogue1

SYSTEMS AND METHODS FOR MANAGING A FINANCIAL INVESTMENT FUND

PATENT NO. US20180068382A1



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MALKA et al.

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(54) **SYSTEMS AND METHODS FOR MANAGING
A FINANCIAL INVESTMENT FUND**

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(US); **Brian Jonas HIRSCHFIELD**,
Boston, MA (US)

(52) **U.S. Cl.**
CPC **G06Q 40/00** (2013.01); **G06Q 40/02**
(2013.01)

(73) Assignee: **Capital One Services, LLC**, McLean,
VA (US)

(21) Appl. No.: **15/797,667**

(22) Filed: **Oct. 30, 2017**

Related U.S. Application Data

(60) Continuation of application No. 14/307,240, filed on
Jun. 17, 2014, Division of application No. 10/712,
353, filed on Nov. 14, 2003, now Pat. No. 8,799,120.

(57) **ABSTRACT**

Providing a financial investment fund includes receiving a plurality of individual funds corresponding to a plurality of investors respectively and aggregating the plurality of individual funds into an aggregated fund. Next, providing a financial investment fund includes purchasing a plurality of financial instruments from at least one financial institution with a first portion of the aggregated fund and placing a second portion of the aggregated fund in a transaction account. The financial investment fund may include at least the financial instruments and the transaction account. In addition, one of the at least one financial institution may use at least a portion of the first portion of the aggregated fund received in exchange for the plurality of financial instruments to perform a function of the financial institution.

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Description

RELATED APPLICATIONS

This application is a continuation of and claims the benefits of U.S. patent application Ser. No. 14/307,240, filed Jun. 17, 2014, which is a divisional of and claims the benefits of U.S. patent application Ser. No. 10/712,353, filed Nov. 14, 2003, now issued as U.S. Pat. No. 8,799,120. The U.S. patent application Ser. No. 14/307,240 and the U.S. patent application Ser. No. 10/712,353 are hereby incorporated by reference in their entireties.

TECHNICAL FIELD

The present invention relates to the field of financial investment funds. More particularly, the present invention, in various specific embodiments, involves systems and methods for managing financial investment funds for a plurality of investors.

BACKGROUND INFORMATION

Financial institutions, such as banks, are critical to our global economy. A bank's primary function is to put their depositor's money to use by lending it out to others who can then use it to, for example, buy homes, businesses, or send their children to school. When a depositor places money in a bank, the money goes into a large pool along with other depositors' money, and the depositor's account is credited with the amount deposited. When the depositor writes checks or makes withdrawals, that amount is deducted from the account balance. The depositor earns interest on the balance of the account.

In performing their function, banks and other financial institutions provide a variety of financial services. Banks, for example, provide loans, issue certificates of deposit (CDs), provide credit card accounts, as well as other financial products. CDs bear a maturity date, a specified interest

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rate, and can be issued in various denominations. Technically, a CD is a promissory note made by a bank. CDs under \$100,000 are called “small CDs” and CDs for more than \$100,000 are called “large CDs” or “Jumbo CDs.” Almost all large CDs, as well as some small CDs, are negotiable. Because the money held in a CD is expected to stay on deposit until maturity, a bank may assess a penalty if the money is withdrawn early. Typically, the penalty is three to six month's interest. In addition to other deposits, CDs up to \$100,000 may be governmentally insured by the FDIC, for example. While insured deposits may be desirable, many depositors may find a CD's early withdraw penalty problematic.

SUMMARY OF THE INVENTION

In accordance with the current invention, a financial investment fund method and system are provided that avoid the problems associated with prior financial investment fund methods and systems as discussed herein above.

In one aspect, a method for providing a financial investment fund comprises receiving a plurality of individual funds corresponding to a plurality of investors respectively, aggregating the plurality of individual funds into an aggregated fund, purchasing a plurality of financial instruments from at least one financial institution with a first portion of the aggregated fund wherein one of the at least one financial institution uses at least a portion of the first portion of the aggregated fund received in exchange for the plurality of financial instruments to perform a function of the financial institution, and placing a second portion of the aggregated fund in a transaction account, the financial investment fund comprising at least the financial instruments and the transaction account.

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In yet another aspect, a system for providing a financial investment fund comprises a component for receiving a plurality of individual funds corresponding to a plurality of investors respectively, a component for aggregating the plurality of individual funds into an aggregated fund, a component for purchasing a plurality of financial instruments from at least one financial institution with a first portion of the aggregated fund wherein one of the at least one financial institution uses at least a portion of the first portion of the aggregated fund received in exchange for the plurality of financial instruments to perform a function of the financial institution, and a component for placing a second portion of the aggregated fund in a transaction account, the financial investment fund comprising at least the financial instruments and the transaction account.

In yet another aspect, a computer-readable medium on which is stored a set of instructions for providing a financial investment fund, which when executed perform stages comprising receiving a plurality of individual funds corresponding to a plurality of investors respectively, aggregating the plurality of individual funds into an aggregated fund, purchasing a plurality of financial instruments from at least one financial institution with a first portion of the aggregated fund wherein one of the at least one financial institution uses at least a portion of the first portion of the aggregated fund received in exchange for the plurality of financial instruments to perform a function of the financial institution, and placing a second portion of the aggregated fund in a transaction account, the financial investment fund comprising at least the financial instruments and the transaction account.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an illustration of an exemplary system for providing a financial investment fund consistent with an embodiment of the present invention.

FIG. 2 is a flow chart of an exemplary method for providing a financial investment fund consistent with an embodiment of the present invention.

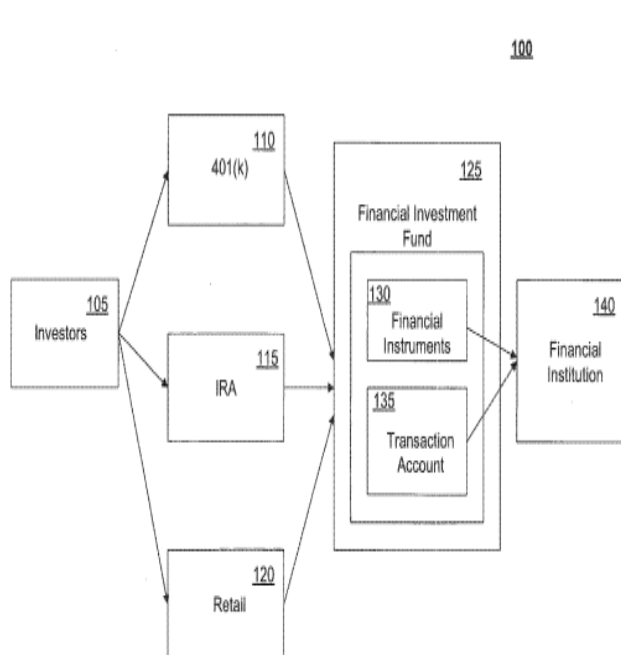


FIG. 1

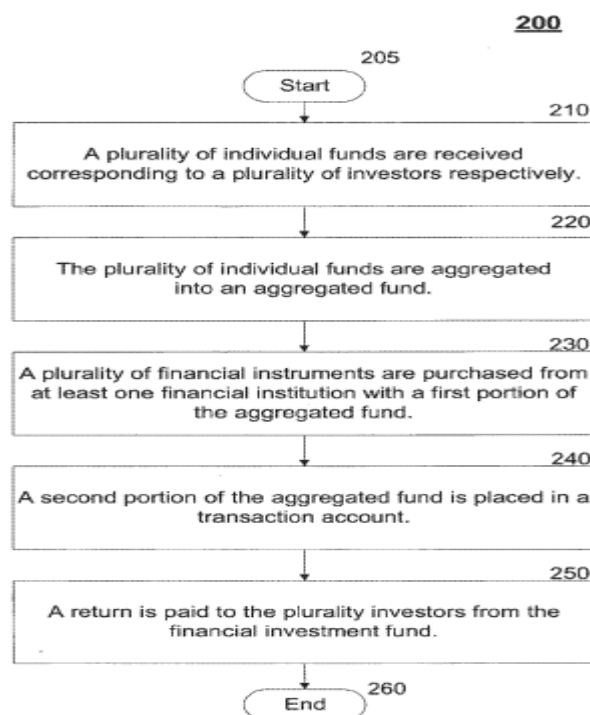


FIG. 2

FIG. 3 is a functional block diagram of an exemplary investment system including an exemplary financial investment fund system consistent with an embodiment of the present invention; and

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FIG. 4 is a functional block diagram of the exemplary financial investment fund system of FIG. 3 consistent with an embodiment of the present invention.

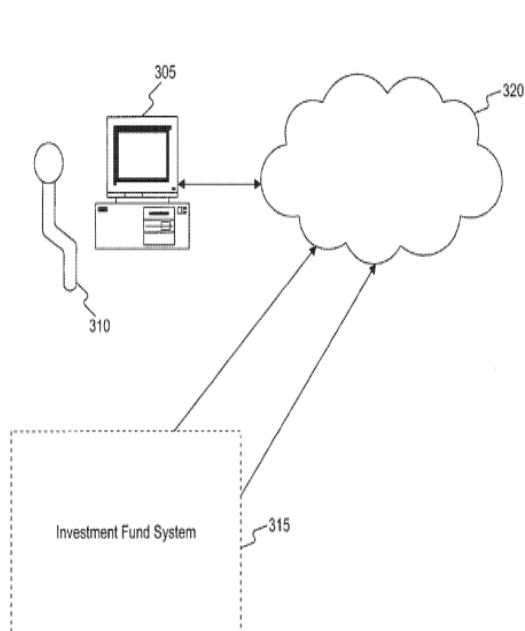


FIG. 3

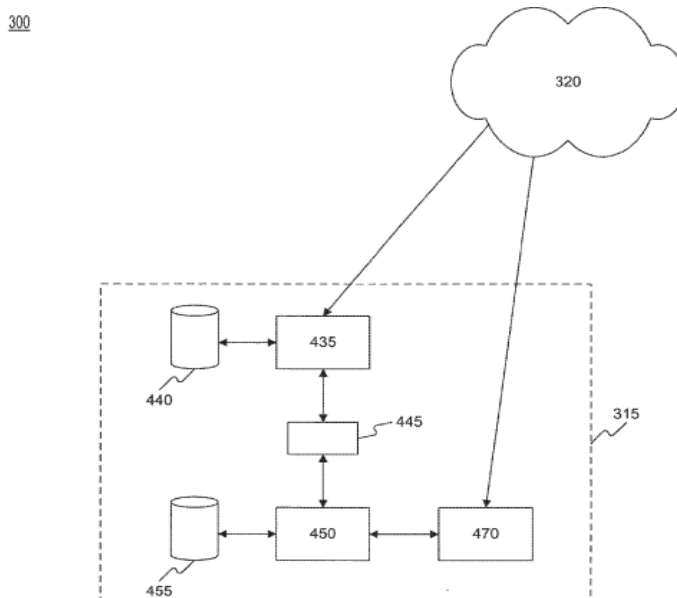


FIG. 4

Claims (20)

What is claimed is:

1. A method, performed by a processor, for managing a financial investment fund, the method comprising:

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receiving fund data reflecting a plurality of individual funds corresponding to a plurality of investors respectively, the investors not being limited to a group comprising employees, contractors, or agents of an enterprise managing the financial investment fund;
aggregating the fund data of the individual funds to create data for an aggregated fund for investing into the financial investment fund, the investment fund including a plurality of certificates of deposit and a transaction account;
determining, based on the fund data, investment types indicative of needs and goals of the investors;
generating first portion data for a first portion of the aggregated fund allocated for investing in the certificates of deposit, the certificates of deposit maturing at predetermined maturity times;
determining an expected amount of withdrawals from the financial investment fund over a given amount of time based on the needs and goals of the investors, the expected amount of withdrawals being determined to cover withdrawals from the financial investment fund by the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund, wherein the expected amount of withdrawals is set to a low percentage of a total value of the financial investment fund to increase the first portion of the aggregated fund allocated for investing in the certificates of deposit when the needs and goals of the investors are long term needs and goals;
generating second portion data based on the expected amount of withdrawals, the second portion data indicating an amount of the aggregated fund allocated for investing in the transaction account;
and
configuring a second portion of the financial investment fund to fund a withdrawal of an individual fund among the plurality of individual funds from the financial investment fund by a corresponding investor among the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund.

2. The method of claim 1, wherein the expected amount of withdrawals is set larger when the needs and goals of the investors are short term needs and goals.
3. The method of claim 1, further comprising paying a return to the plurality investors from the financial investment fund.
4. The method of claim 1, wherein the certificates of deposit comprise certificates of deposit issued by an enterprise managing the financial investment fund.

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5. The method of claim 1, wherein the certificates of deposits have at least one of varying return rates and varying maturity dates as compared to one another.
6. The method of claim 1, wherein the certificates of deposit comprise at least one of jumbo certificates of deposits, promissory notes, time deposits, or bonds.
7. The method of claim 1, wherein the financial institution performs a credit card operation using the first portion of the aggregated fund received in exchange for the certificates of deposits.
8. The method of claim 7, wherein the financial institution uses the first portion of the aggregated fund received in exchange for the plurality of certificates of deposit to pay merchants for goods or services provided to users of credit cards provided by the financial institution.
9. The method of claim 1, wherein at least a portion of the plurality of individual funds is insured by the United States federal government.
10. The method of claim 1, wherein the amount in the transaction account is established to cover no more than an expected amount of the withdrawals from the financial investment fund over a given amount of time.
11. The method of claim 1, wherein a yield received by an enterprise managing the financial investment fund on the plurality of financial instruments is greater than a yield received by the enterprise managing the financial investment fund on funds in the transaction account.
12. The method of claim 1, wherein the financial investment fund is used in conjunction with at least one of an individual retirement account and a 401k account.

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13. The method of claim 1, wherein providing the financial investment fund comprises communicating over a network.

14. The method of claim 13, wherein user devices on the network are located in at least one of a home, an office, a store, a retail center kiosk, an office of a financial institution, or an office of an enterprise managing the financial investment fund.

15. A system, performed by a processor, for managing a financial investment fund, the system comprising:

- a component for receiving fund data reflecting a plurality of individual funds corresponding to a plurality of investors respectively, the investors not being limited to a group comprising employees, contractors, or agents of an enterprise managing the financial investment fund;
- a component for aggregating the fund data of the individual funds to create data for an aggregated fund for investing into the financial investment fund, the investment fund including a plurality of certificates of deposit and a transaction account;
- a component for determining, based on the fund data, investment types indicative of needs and goals of the investors; and
- a component for generating first portion data for a first portion of the aggregated fund allocated for investing in the certificates of deposit, the certificates of deposit maturing at predetermined maturity times;
- a component for determining an expected amount of withdrawals from the financial investment fund over a given amount of time based on the needs and goals of the investors, the expected amount of withdrawals being determined to cover withdrawals from the financial investment fund by the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund, wherein the expected amount of withdrawals is set to a low percentage of a total value of the financial investment fund to increase the first portion of the aggregated fund allocated for investing in the certificates of deposit when the needs and goals of the investors are long term needs and goals;
- a component for generating second portion data based on the expected amount of withdrawals, the second portion data indicating an amount of the aggregated fund allocated for investing in the transaction account; and

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a component for configuring a second portion of the financial investment fund to fund a withdrawal of an individual fund among the plurality of individual funds from the financial investment fund by a corresponding investor among the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund.

16. The system of claim 15, wherein the expected amount of withdrawals is set larger when the needs and goals of the investors are short term needs and goals.

17. The system of claim 15, wherein the certificates of deposit comprise certificates of deposit issued by an enterprise managing the financial investment fund.

18. The system of claim 15, wherein the certificates of deposits have at least one of varying return rates and varying maturity dates as compared to one another.

19. The system of claim 15, wherein the financial institution performs a credit card operation using the first portion of the aggregated fund received in exchange for the certificates of deposits, and wherein the financial institution uses the first portion of the aggregated fund received in exchange for the plurality of certificates of deposit to pay merchants for goods or services provided to users of credit cards provided by the financial institution.

20. A computer-readable medium on which is stored a set of instructions for funding a financial institution through a financial investment fund, which when executed perform stages comprising:

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receiving fund data reflecting a plurality of individual funds corresponding to a plurality of investors respectively, the investors not being limited to a group comprising employees, contractors, or agents of an enterprise managing the financial investment fund;
aggregating the fund data of the individual funds to create data for an aggregated fund for investing into the financial investment fund, the investment fund including a plurality of certificates of deposit and a transaction account;
determining, based on the fund data, investment types indicative of needs and goals of the investors;
generating first portion data for a first portion of the aggregated fund allocated for investing in the certificates of deposit, the certificates of deposit maturing at predetermined maturity times;
determining an expected amount of withdrawals from the financial investment fund over a given amount of time based on the needs and goals of the investors, the expected amount of withdrawals being determined to cover withdrawals from the financial investment fund by the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund, wherein the expected amount of withdrawals is set to a low percentage of a total value of the financial investment fund to increase the first portion of the aggregated fund allocated for investing in the certificates of deposit when the needs and goals of the investors are long term needs and goals;
generating second portion data based on the expected amount of withdrawals, the second portion data indicating an amount of the aggregated fund allocated for investing in the transaction account;
and
configuring a second portion of the financial investment fund to fund a withdrawal of an individual fund among the plurality of individual funds from the financial investment fund by a corresponding investor among the plurality of investors at any time regardless of maturity dates of any of the plurality of certificates of deposit in the first portion of the financial investment fund.

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Analogue 2

SYSTEMS AND METHODS FOR PROVIDING INVESTMENT STRATEGIES

PATENT NO. US20090018969A1



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(54) **SYSTEMS AND METHODS FOR PROVIDING
INVESTMENT STRATEGIES**

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(57) **ABSTRACT**

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(21) Appl. No.: **12/157,358**

(22) Filed: **Jun. 9, 2008**

Related U.S. Application Data

(60) Provisional application No. 60/933,749, filed on Jun.
7, 2007.

In one aspect, the invention comprises a computer system comprising: (a) a computer component that receives data identifying a person's investing goals, current savings, and risk tolerance; (b) a database that stores the data identifying a person's investing goals, current savings, and risk tolerance and further stores data describing margin rates, stock returns, and bond returns; (c) a computer component that calculates a utility function and identifies a probability distribution of returns that is most optimal for the person, based on the data identifying the person's investing goals and risk tolerance; and (d) a computer component that calculates one or more investment targets for the person based on application of the utility function to the data describing margin rates, stock returns, and bond returns. Other aspects and embodiments of the invention comprise related methods and software.

Description

CROSS REFERENCE TO RELATED APPLICATIONS

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This application claims priority to U.S. Provisional Patent Application No. 60/933,749, filed Jun. 7, 2007. The entire contents of that provisional application are incorporated herein by reference.

INTRODUCTION

The typical person invests far too little in stocks when young. Since the young are also liquidity constrained, the only way to invest more is to buy stocks with leverage. While leveraged purchases of stock increase short-term risk, they reduce long-term risk by letting individuals achieve better diversification across time. To reduce retirement savings risk, people should move closer to investing equal dollar amounts in stock each year of their working life. One aspect of the present invention is based on a four-phase life-cycle strategy that allows optimal temporal diversification of retirement investments.

The typical decision of how to invest retirement savings is fundamentally flawed. This is a result of investors generally following the flawed advice of professionals. The standard (and wrong) advice is to hold stocks roughly in proportion to 110 minus one's age. Thus, a twenty-year-old might be 90-10 in stocks versus bonds, while a sixty-year-old would be 50-50. This advice has been automated by life-cycle funds from Fidelity, Vanguard, and others that each year shift the portfolio from stocks into bonds.¹ Our results demonstrate that the early asset allocation is far too conservative. ¹ Both the Fidelity Freedom Funds and Vanguard's Target retirement funds start with 90% in stocks and 10% in bonds and gradually move to a 50-50% allocation at retirement. The initial ramp-down is slow (Vanguard stays at 90% through age 40).

Part of our discovery is that investors should buy stocks on margin when young. The way to have more invested in the market when young is to borrow to buy stocks. This is the typical pattern with real estate where the young take out a mortgage and thereby buy a house on margin. We propose that people follow a similar model for equities.

Another approach to gain leverage is to buy index option contracts that are well in the money. For example, a two-year call option with a strike price of 50 on an index at 100 will cost something close to 50. Thus for \$50, the investor can buy exposure to \$100 of the index return. The implied cost of such 2:1 leverage is quite low (about 50 basis points above the yield on a one-year Treasury note), which makes the strategy practical in current markets.

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This strategy goes against conventional practice, but it is supported by the data. Following this strategy leads to higher returns with lower risks. This is demonstrated both for historical data and for Monte Carlo simulations.

We derive a four-phase allocation strategy with decreasing amounts of leverage in each phase. The core investment strategy in each phase is to invest a constant percentage of the present value of savings in stock, where the percentage is a declining function of risk-aversion. Because of the cost of borrowing on margin, the investment goal during the initial leveraged phases is lower than during the later unleveraged phases. The success of this four-phase strategy relies on the existence of an equity premium over the margin rate.

Our focus is on investment allocation during working years—on the allocation between stocks and bonds, taking the savings rate as given. For a typical vector of saving contributions, our investment strategy, in various aspects, first-order stochastically dominates the returns of traditional investment strategies.

Our recommendation is conservative in that there are features of the market that suggest the person should invest even more in equities when young. To the extent that there is mean reversion or negative correlation over the long run in the market, this will reduce the risk of early investments (which have a longer exposure to the market). This leads us to derive an alternative strategy that turns on a single dollar target (instead of a percentage target). With negative correlation, the dollar target takes some advantage of market timing in that investments rise following a decline and fall after a rise. As a result, dollar targets produce particularly impressive results using our historic data.

The cost of mis-investing one's retirement portfolio when young is not small. Our analysis suggests that if people had followed this advice historically, they would have retired with portfolios worth 45% more on average compared to all stock and 122% more when compared to the life-cycle strategy.

The increased returns also have less risk. The margin purchases lead to a first-order stochastic dominant set of returns. For all risk preferences, the results are better. This suggests a general strategy that will lead to better outcomes: whatever savings young people have; they should leverage them up.

In one aspect, the present invention comprises an automated system for asset allocation that temporally diversifies an investment portfolio. Aspects of the invention comprise computer

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systems, software, and methods for providing investment advice regarding and/or automatically investing an optimally adjusted portfolio over time.

In at least one aspect, the invention comprises software implementing an investment algorithm that optimally diversifies investment risk across time. In this algorithm, it is optimal for investor to buy stock on margin (i.e., with borrowed money) when they are young. Our software takes into account cost of borrowing and a host of other factors to produce, in at least one embodiment, a four-phase strategy.

The dollar amounts preferably invested in stock can be summarized succinctly: in the first-phase, you invest two times your current savings in stocks; in the second phase, you invest a fixed percentage (called “the leveraged target percentage”) multiplied by the present value of current and future wealth (discounted at the margin rate of interest); in phase three, you invest 100% of current savings in stock; and in phase four, you invest a higher fixed percentage (“the unleveraged target percentage”) multiplied by the present value of current and future wealth (discounted at the risk-free rate).

The present invention comprises at least four embodiments, each based on a separate investment strategy.

1. Dual-Percentage Target (Four-Phase) Strategy. This is the strategy briefly described above.
2. Dual-Dollar Target (Four-Phase) Strategy. This is an analogous four-phase strategy where the investor targets investing a fixed present value dollar amount in stock each year. As with the dual percentage target strategy, this strategy has an initial (leveraged) dollar target which is lower than a subsequent (unleveraged) dollar target. Because the targeted amount is expressed in present value, the nominal amount invested in stock rises at a fixed percentage. This strategy is superior to the dual-percent target strategy if one believes that the stock market tends to be mean-reverting.
3. Single-Percentage Target (Three-Phase) Strategy. Under this strategy, the investor strives to invest a constant percentage of the present value of present and future saving contributions in stock. In early years, the worker invests her initial savings on a fully leveraged basis of 200% and remains fully leveraged until doing so would create stock investments exceeding the target percentage amount. From then on the worker invests on a partially leveraged or unleveraged basis. This 3-phase strategy would produce a stylized figure similar to FIG. 1, except there would be no phase 3. If the worker's unleveraged portfolio value exceeds the target percentage, the target amount is invested in stock and the excess amount in government bonds. The percentage

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of the portfolio that is invested in stock is contingent on the realized returns in prior years as they impact the current portfolio value. A cohort of workers who realize abnormally high (low) stock returns in early years may utilize to more (less) leverage in the future.

4. Single Dollar Target (Three-Phase) Strategy. Under this strategy, the investor seeks to invest a constant present value amount in stock. As discussed above, the nominal target amount rises each year by a fixed rate. This three-phase strategy, like the single percentage target, also has a fully leveraged, a partially leveraged, and an unleveraged phase of investment. But in contrast to the single percentage target, abnormally high (low) stock returns in early years may lead to less (more) leverage in the future. This strategy thus affords a kind of market timing to exploit possible mean-reversion in stock returns. The single target (three phase) strategies are superior to dual target (four phase) strategies, when the margin interest rate is close to the risk-free rate on government bonds.

BRIEF DESCRIPTION OF SEVERAL DRAWINGS

FIG. 1 depicts an exemplary embodiment.

FIG. 2 depicts summary statistics for nominal financial returns.

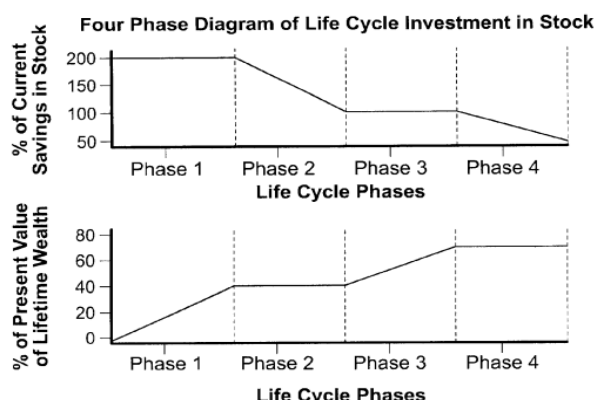


FIG. 1

Table 1: Summary Statistics of Nominal Financial Returns 1871-2004				
	Geometric Mean	St. Dev.	Max	Min
Stock	9.0%	17.8%	54.9%	-42.9%
Bond	4.8%	3.8%	27.0%	-1.9%
Margin				
Rate	5.0%	3.3%	18.9%	0.6%
Inflation	2.1%	6.2%	20.7%	-15.7%

Source: Shiller (2005a) Except Margin Rate, Which is Money Call Rate from Global Financial Data.

FIG. 2

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FIGS. 3 and 38 depict flow of savings contributions along with present value of future contributions.

FIG. 4 depicts results of maximization of single-period expected utility.

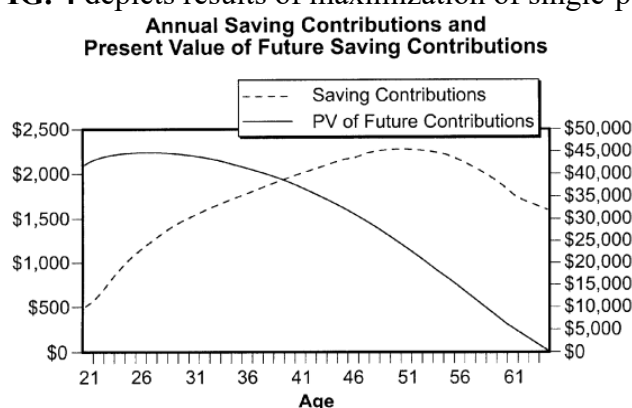


FIG. 3

Table 2: CRRA-specific Percent and Dollar Targets			
CRRA	Leveraged % Targets	Unleveraged % Targets	Leveraged \$ Targets
1	160.1%	165.9%	\$16,197
2	88.0%	91.6%	\$34,143
4	45.7%	47.4%	\$20,540
8	23.8%	24.6%	\$11,884
16	12.6%	13.2%	\$6,375
32	6.7%	7.5%	\$3,465

FIG. 4

FIGS. 5 and 39 depict average present value invested in stock.

FIG. 6 depicts distribution of retirement wealth under five investment strategies.

FIG. 7 depicts median length of different investment phases in an embodiment.

FIGS. 8 and 40 illustrate the stochastic dominance of the single-percentage and single-dollar strategies.

FIG. 9 depicts a sign test for the single and dual percentage accumulations.

FIGS. 10 and 41 depict histograms of retirement savings comparing percent and dollar strategies.

FIG. 11 depicts an analysis of margin calls.

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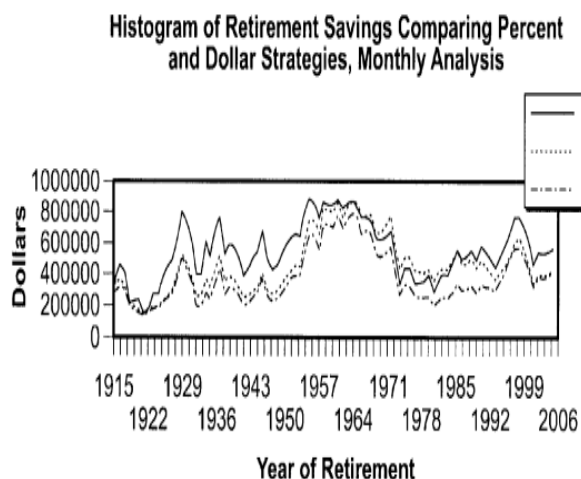


FIG. 10

Table 6: Analysis of Margin Calls for Different Maintenance Margin Percentages

% Market Drop from Beginning of Year	Maint. Margin %	# Years with Margin Calls (Out of 91)	# Months with Margin Calls (Out of 1597)	# Months Followed by Rebound	# Months Followed by Deterioration
50.00%	0.00%	0	0	0	0
40.00%	16.70%	2	2	1	1
33.30%	25.00%	4	9	5	4
30.00%	28.60%	5	13	9	4
28.60%	30.00%	6	15	11	4
23.10%	35.00%	11	30	17	13

FIG. 11

FIG. 12 depicts a histogram of the differential in retirement accumulations.

FIG. 13 depicts prevalence of negative monthly returns.

FIG. 14 depicts impact of higher margin caps on leveraged investment strategies.

FIG. 15 depicts implicit margin rate for S&P 500 futures.

FIG. 16 shows impact of increasing the historic margin rates.

FIG. 17 depicts results of reducing nominal annual stock return by various percentage points.

FIG. 18 depicts results of Monte Carlo simulations.

FIG. 19 depicts certainty equivalents for single percent target strategies re-optimized for particular degrees of risk aversion.

FIG. 20 shows that mean, median, and minimum accumulations are substantially higher than 100% stock accumulations in each 20-year period of retirement cohorts.

FIGS. 21 and 22 depict flowcharts showing steps of method embodiments.

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Table 7: Prevalence of Negative Monthly Returns Among the 49,104 Cohort-Months (93x528)

Real Monthly Portfolio Return (Less than or Equal to)	100% Stock Strategy		Single % Target (88%) Strategy		Single Target (\$34,143) Strategy	
	# of Months	Cumm. % of Months	# of Months	Cumm. % of Months	# of Months	Cumm. % of Months
-100.00%	0	0.0%	0	0.0%	0	0.0%
-90.00%	0	0.0%	0	0.0%	0	0.0%
-80.00%	0	0.0%	0	0.0%	0	0.0%
-70.00%	0	0.0%	0	0.0%	0	0.0%
-60.00%	0	0.0%	0	0.0%	0	0.0%
-50.00%	0	0.0%	6	0.1%	6	0.1%
-40.00%	0	0.0%	22	0.5%	26	0.6%
-33.33%	0	0.0%	39	1.0%	58	1.4%
-30.00%	0	0.0%	46	1.1%	63	1.6%
-23.08%	44	1.1%	251	6.3%	287	7.2%
-20.00%	88	2.2%	355	8.9%	450	11.2%
-10.00%	922	23.0%	1919	47.9%	2237	55.9%
0.00%	19575	488.9%	19845	495.6%	19971	498.8%
Global Minimum	-26.2%		-53.0%		-53.0%	

FIG. 13

Table 10: The Implicit Costs of Borrowing Via Stock Index Futures and UltraBull Mutual Fund

Average Implicit Borrowing Rate			
S&P 500 Future*	Margin Rate	1 Month. Libor	Prime Rate
4.08%	5.67%	3.14%	6.02%
UltraBull Profund**	Margin Rate	1 Year Libor	Prime Rate
5.09%	6.02%	3.49%	5.39%
*Average Implicit Annualized Interest Rate for Daily Future and Spot Data from 1/1/00 - 5/31/06. All Data (Including S&P Spot and Future Prices and Dividend Yield from Global Financial Data. **Average Implicit Annualized Interest Rate for 10 Overlapping Year-long Periods Between 1/01 and 10/03. Data from www.profund.com			

FIG. 15

Table 14: Certainty Equivalent Wealth for CRRA-specific Strategies in 1000 Monte Carlo Simulations (with Replacement)

CRRA	Certainty Equivalent Wealth	% Improve. Rel. to 100% Stock
2 (88.0%)	\$ 312,291	9.6%
4 (45.7%)	\$ 201,260	14.4%
8 (23.8%)	\$ 136,387	30.4%
16 (12.6%)	\$ 92,626	27.4%
32 (6.7%)	\$ 72,918	24.8%

FIG. 19

Lifetime Percentage Targets

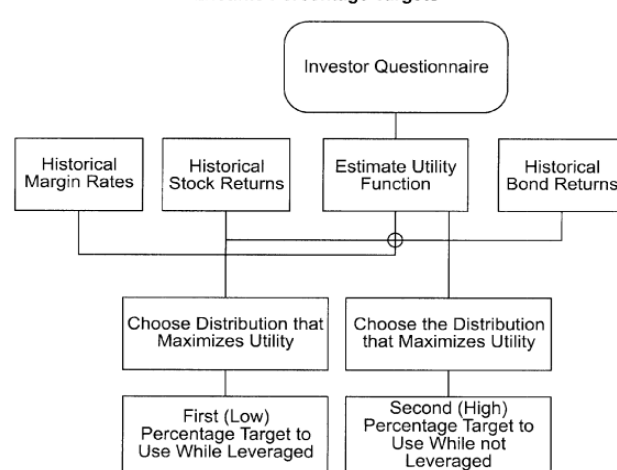


FIG. 21

FIGS. 23-27 illustrate an exemplary implementation of a single target strategy.

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Questionnaire	Enter your Answers Here		
<p>Introduction:</p> <p>The Following Questions will Help Us Target your Personal Investment Plan by working out How Much Income you want to Save, and How Much Risk you are Willing to Tolerate for Extra Retirement Wealth.</p> <p>Please Work Through the Questions from Top to Bottom, as Later Questions will Reflect your Answers from Earlier Questions.</p> <p>The First Questions will Help Us Estimate How Much Income you'll have Available to Save and Invest for Retirement.</p>			
<p>Q1. What is your Current Age?</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">21</div>		
<p>Q2. Let's Assume that Each Year you Put aside a Constant Fraction of your Income for Retirement. What Percentage would you Say you'd Put aside?</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">5%</div>		
<p>Q3. What is your Income (After Taxes) this Year?</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">\$20,000</div>		
<p>Q4. What is your Highest Level of Education? Enter HS for High School, SC for Some College, CG if you have Graduated from a 4 year College, or GE if you have Attained a Graduate or Professional Degree.</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">CG</div>		
<p>Q5. How Much have you Already Put aside for Retirement?</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">\$1,000</div>		
<p>The Next Set of Questions will Help Us Determine your Level of Risk Tolerance.</p>			
<p>Let's Suppose that your Retirement Savings Come to the Amount in the Green Box, but there's a 50% Chance that you'll Lose the Number in the Red Box.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">\$933,952</td> <td style="width: 50%; text-align: center;">\$169,810</td> </tr> </table>	\$933,952	\$169,810
\$933,952	\$169,810		
<p>Thus, the Average Amount you'd Get would be:</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">\$849,048</div>		
<p>and the Worst Case Scenario Would be:</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">\$764,143</div>		
<p>How Much would you Pay to "Insure" Against this Loss - i.e. Make it Certain you'd Get the Best Case Scenario (Green Box)</p>	<div style="border: 1px solid black; width: 50px; height: 20px; margin: 0 auto;">\$30,000</div>		

FIG. 23A

Now Let's Consider the Same Scenario with New Numbers. Your Retirement Savings Come to the Amount in the Green Box, but there's a 50% Chance that you'll Lose the Number in the Red Box.

Thus, the Average Amount you'd Get would be:
and the Worst Case Scenario would be:

\$1,103,762	\$509,429
849,048	
\$594,333	

How Much would you Pay to "Insure" Against this Loss - i.e. Make it Certain you'd Get the Best Case Scenario (Green Box)

\$300,000

Thank you for Taking this Questionnaire. Your Answers will Help us Develop an Investment Plan that is Right for your Income and your Taste for Risk.

Copy this Number down One Cell

Get the Number from One Cell Above.

2.35

Check this Box with an X when you're Done with the Assessment to Formulate your Investment Plan.

FIG. 23B

FIGS. 28-37 depict tables related to additional embodiments.

Table 16: The Implicit Costs of Borrowing Via Stock Index Futures and UltraBull Mutual Fund			
Average Implicit Borrowing Rate			
S&P 500 Future*	Margin Rate	1 Month Libor	Prime Rate
4.08%	5.82%	3.14%	6.02%
UltraBull Profund**	Margin Rate	1 Year Libor	Prime Rate
5.09%	5.29%	3.49%	5.39%

*Average Implicit Annualized Interest Rate for Daily Future and Spot Data from 1/1/00 - 5/31/06. All Data (Including S&P Spot and Future Prices and Divided Yield are from Global Financial Data.
**Average Implicit Annualized Interest Rate for 10 Overlapping Year-long Periods Between 1/01 and 10/03. Data from www.profund.com

Table 17: Implied Interest Rates - 1 Yr. S&P Calls 1996-2006					
Range of "Leverage" Ratios	Contracts Observed	Average Implied Interest Rate	Mean Spread Over Margin Rate	Mean Spread Over 1-Year Treasury Note	Marginal Interest Rate at Mean Spread
1 - 2	347	4.02%	-1.96%	0.53%	-
2 - 3	1,857	5.07%	-1.68%	0.92%	4.92%
3 - 4	1,998	5.70%	-0.93%	1.76%	6.60%
4 - 5	1,794	6.67%	-0.01%	2.73%	8.66%
5 - 6	1,485	7.61%	0.93%	3.67%	10.50%
6 - 7	1,281	8.54%	1.78%	4.53%	11.96%
7 - 8	1,022	9.18%	2.44%	5.22%	12.66%
8 - 9	843	9.81%	2.98%	5.75%	12.94%
9 - 10	703	10.31%	3.53%	6.25%	13.77%
10 - 11	589	10.90%	4.11%	6.79%	15.06%
11 - 12	525	11.51%	4.75%	7.48%	17.72%
12 - 13	487	11.51%	4.82%	7.48%	11.50%
13 - 14	430	12.21%	5.48%	8.19%	19.98%

Option Close Prices from CRSP Used for LEAPS on the S&P 500, between 11 and 12 Months to Maturity. Implied Leverage Ratios and Implied Interest Rates were Calculated for each Contract Observation and then Grouped by Leverage Ratio. Marginal Interest Rates are Calculated Between these "Tranches" and Assuming a Treasury Rate of 4%.

FIG. 28

CLAIMS (21)

1. A computer system comprising:

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Object: Work of Science – Concept of Digital Assets Investments Strategy of Infinity Technologies Fund
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a computer component that receives data identifying a person's investing goals, current savings, and risk tolerance;

a database that stores said data identifying a person's investing goals, current savings, and risk tolerance and further stores data describing margin rates, stock returns, and bond returns;

a computer component that calculates a utility function and identifies a probability distribution of returns that is most optimal for said person, based on said data identifying said person's investing goals and risk tolerance; and

a computer component that calculates one or more investment targets for said person based on application of said utility function to said data describing margin rates, stock returns, and bond returns.

2. A computer system as in claim 1, wherein said one or more investment targets comprises a percentage target that specifies a proportion of current and future discounted savings contributions that said person should strive to invest in stock.
3. A computer system as in claim 1, wherein said computer component that calculates one or more investment targets does so based on maximization of said utility function.
4. A computer system as in claim 1, wherein said computer component that calculates one or more investment targets calculates a low target and a high target.
5. A computer system as in claim 2, wherein said computer component that calculates one or more investment targets calculates a low percentage target and a high percentage target.
6. A computer system as in claim 4, wherein said high target is set equal to said low target.
7. A computer system as in claim 1, wherein at least one of said one or more investment targets is expressed as a dollar amount to be invested in stock after, before, or during a specified period of time.

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8. A computer system as in claim 7, wherein said computer component that calculates one or more investment targets calculates a low dollar target and a high dollar target.
9. A computer system as in claim 1, further comprising:
 - a computer component that receives data identifying said person's future saving prospects; and
 - a computer component operable to calculate a present value of current and future savings for said person based on said data identifying said person's future saving prospects and said data identifying said person's current savings.
10. A computer system as in claim 1, wherein said one or more investment targets comprise four phases.
11. A computer system as in claim 10, wherein said four phases are as follows:
 - (i) a first phase wherein all liquid wealth of said person is invested at maximum leverage;
 - (ii) a second phase wherein said person deleverages investments from maximum leverage to no leverage;
 - (iii) a third phase wherein all liquid wealth of said person is invested in equities; and
 - (iv) a fourth phase wherein said person maintains investments at an optimal allocation based on said person's wealth and the available risk-free rate of return.
12. A computer system as in claim 1, wherein said utility function is proportional to $E \left[R^{1-\gamma} \right]$, where R is resulting blended return and γ is relative risk aversion of said person.
13. A computer system as in claim 1, wherein at least one of said one or more investment targets is calculated based on minimizing risk while holding expected return constant.
14. A computer system as in claim 1, wherein at least one of said one or more investment targets is calculated based on maximizing certainty equivalent.

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15. A computer system as in claim 1, wherein at least one of said one or more investment targets is calculated based on setting an initial equity percentage target at a lower percentage during periods of leveraged investment than during periods of unleveraged investment.

16. A computer system as in claim 1, wherein at least one of said one or more investment targets is calculated based on setting an equity percentage target at a constant percentage of discounted savings of said person.

17. A computer system as in claim 16, wherein at least one of said one or more investment targets is calculated based on maintaining investments on a fully leveraged basis until stock investments exceed said equity percentage target.

18. A computer system as in claim 16, wherein after said stock investments exceed said equity percentage target, said person is advised to invest on a partially leveraged or unleveraged basis.

19. A computer system as in claim 1, wherein at least one of said one or more investment targets is calculated based on a constant present value dollar amount of stock investment.

20. A computer system as in claim 2, further comprising:

a computer component that receives data identifying said person's future saving prospects; and
a computer component operable to calculate a present value of current and future savings for said person based on said data identifying said person's future saving prospects and said data identifying said person's current savings.

21. A computer system as in claim 20, further comprising a computer component that calculates a dollar amount to be invested during a specified period of time based the multiplicative product of said percentage target and said present value of current and future savings.

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Analogue 3

METHOD FOR PROVIDING FUND OF AND ACCESS TO AN INVESTMENT VEHICLE

PATENT NO. US7761376B2



(12) **United States Patent**
Cudzilo et al.

(10) **Patent No.:** **US 7,761,376 B2**
(45) **Date of Patent:** **Jul. 20, 2010**

(54) **METHOD FOR PROVIDING FUNDING OF
AND ACCESS TO AN INVESTMENT VEHICLE**

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(US); **Patrick Joseph Callahan, Jr.**,
Chicago, IL (US)

(73) Assignee: **Excelerated Income Benefits
Company, Inc.**, Oak Brook, IL (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 987 days.

(21) Appl. No.: **11/040,982**

(22) Filed: **Jan. 21, 2005**

(65) **Prior Publication Data**
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(51) **Int. Cl.**
G06Q 40/00 (2006.01)

(52) **U.S. Cl.** **705/39; 705/35; 705/36;**
705/38; 705/42; 705/45; 395/235

(58) **Field of Classification Search** **705/39,**
705/38, 31, 35, 36, 42, 45; 395/235
See application file for complete search history.

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(74) *Attorney, Agent, or Firm*—Steven A. Maynard; Conduit
Technology Partners

(57) **ABSTRACT**

A method for providing funding of and access to an investment vehicle, comprises the steps of establishing an investment vehicle, monetizing the investment vehicle by depositing funds therein by at least one predetermined investor, receiving a request for the funds by an employee of an employer, distributing the funds from the investment vehicle to a financial institution via a management entity upon direction of the management entity in response to the employee's request, transferring the funds from the financial institution to the employee via the employer, utilizing the funds for a predetermined economic activity by the employee, remitting the funds to the financial institution from an employee's subsequent earnings via an employer payroll system, redepositing the funds, remitted to the financial institution, into the investment vehicle via the management entity, and wherein the basis for the investment vehicle is the value of an employee's continuing employment with an employer.

15 Claims, 6 Drawing Sheets

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Description

FIELD OF INVENTION

The present invention relates to a business method for providing funding of and access to investment vehicles, and more specifically, to investment vehicles wherein the value of an employee's continuing employment with an employer is the basis for such a vehicle.

BACKGROUND OF THE INVENTION

The involvement of financial institutions and employers to provide loan programs to employees and to deduct from an employee's future earnings the pay back for such loans is known in the art. It is also known that the cost and administrative burdens to the employer of offering such a benefit is sufficient to cause the employer to not offer such a benefit in an employee benefits program. Additionally, the risk of an employee defaulting on such a loan is sufficient to deter employers and/or financial institutions from offering such a benefit. Further, if offering a standardized loan program, it is generally done with restrictive qualification criteria, thereby limiting the use of such a program to a marginal group of employees. Such criteria makes it difficult for all but the most highly qualified or the most needy employees to be offered such a loan for uses as significant as the purchasing or refinancing of a home.

It is therefore desired to provide funding of and access to an investment vehicle that transfers the risks of such an employer and/or financial institution sponsored and managed employee benefit to an investment community. Such a transfer of risk will allow for more employers and employees to have access to and receive funding from such an investment vehicle than is currently available with employer and/or financial institution sponsored and managed employee benefits programs.

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SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method that overcomes the disadvantages of the prior art.

Accordingly, the present invention advantageously provides a method for providing funding of and access to an investment vehicle, comprising the steps of; establishing an investment vehicle, monetizing the investment vehicle by depositing funds therein by at least one predetermined investor, receiving a request for the funds by an employee of an employer, distributing the funds from the investment vehicle to a financial institution via a management entity upon direction of the management entity in response to the employee's request, transferring the funds from the financial institution to the employee via the employer, utilizing the funds for a predetermined economic activity by the employee, remitting the funds to the financial institution from an employee's subsequent earnings via an employer payroll system, redepositing the funds, remitted to the financial institution, into the investment vehicle via the management entity, and wherein the basis for the investment vehicle is the value of an employee's continuing employment with an employer.

It is a feature of the present invention that the investment vehicle is a securitized investment vehicle.

It is an additional feature of the present invention that the predetermined economic activity is a real estate transaction.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a flow diagram showing a monetization, disbursement, and repayment of funds from an investment vehicle of the present invention.

FIG. 2 is an alternative embodiment of a flow diagram showing the monetization, disbursement, and repayment of funds from the investment vehicle of the present invention.

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FIG. 1

FIG. 2

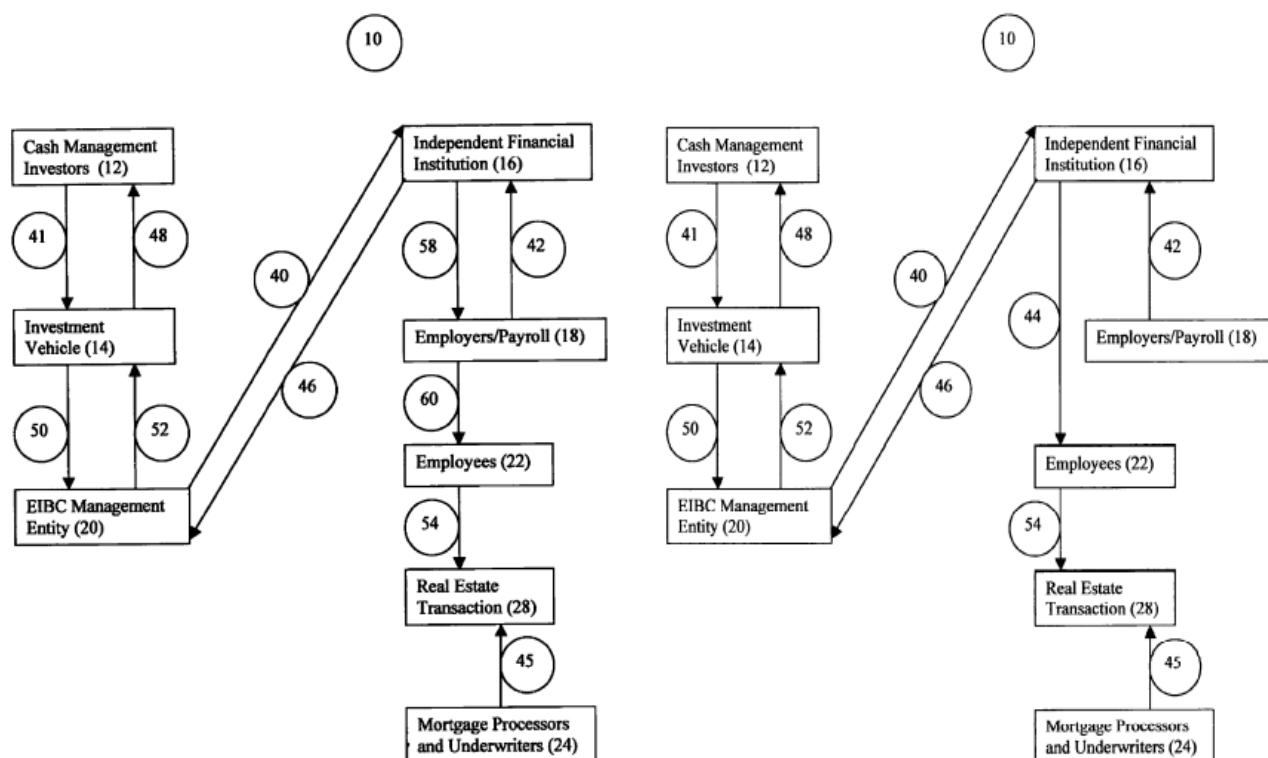


FIG. 3 is a flow diagram showing the relationships between each of the participants that provide access to the investment vehicle of the present invention.

FIG. 4 is an alternative embodiment of a flow diagram showing the relationships between each of the participants that provide access to the investment vehicle of the present invention.

FIG. 5 is an alternative embodiment of a flow diagram showing the monetization, disbursement, and repayment of funds from the investment vehicle of the present invention.

FIG. 6 is an alternative embodiment of a flow diagram showing the monetization, disbursement, and repayment of funds from the investment vehicle of the present invention.

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FIG. 3

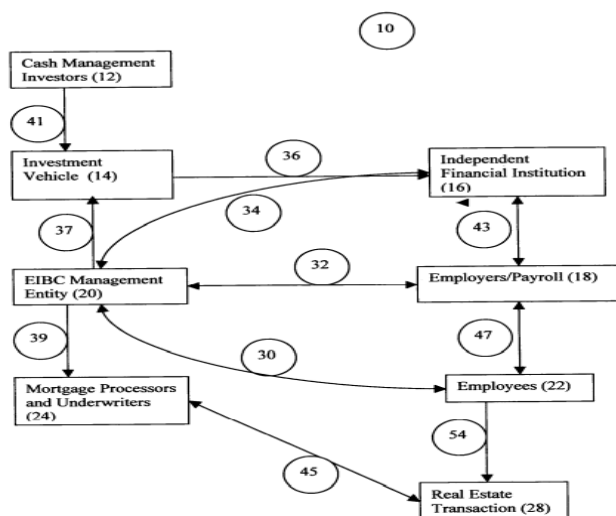


FIG. 4

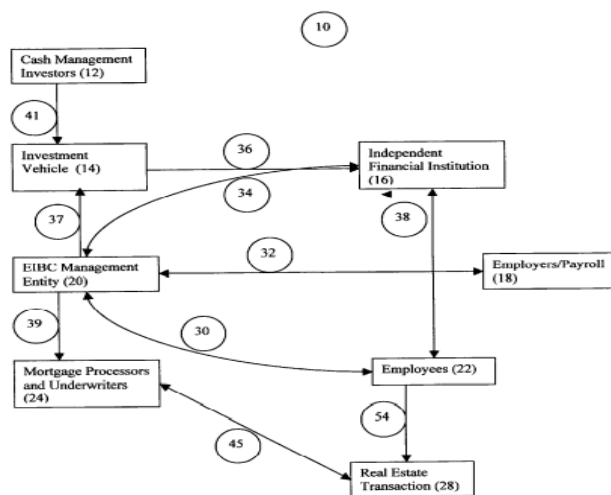


FIG. 5

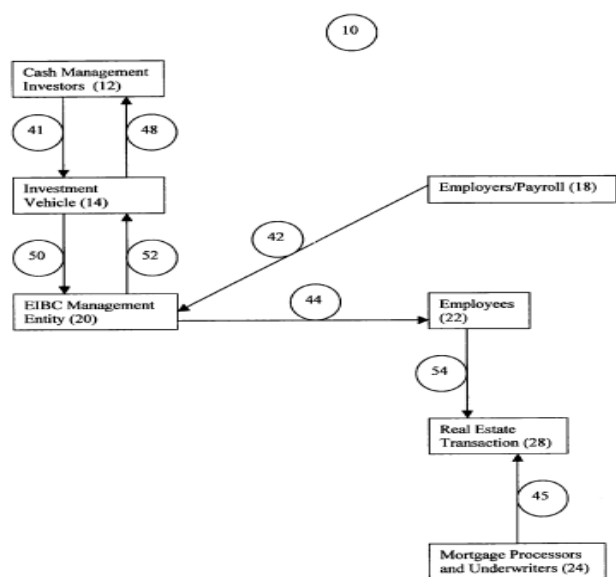
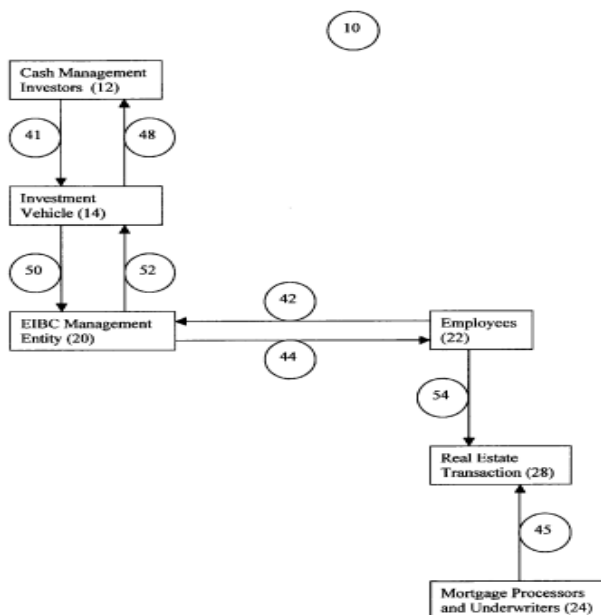


FIG. 6



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CLAIMS (15)

1. A method for providing funding of and access to an investment vehicle, comprising the steps of:

establishing an investment vehicle;
monetizing said investment vehicle by depositing funds therein by a plurality of cash management investors;
paying a subscription fee to a management entity by an employer;
receiving a request for said funds by an employee of said employer via an internet interface, wherein said employee and a credit union organized by employees of said subscribing employer, of which said employee is a member, being independent from said plurality of cash management investors in said investment vehicle distributing said funds from said investment vehicle to a financial institution via said management entity upon direction of said management entity in response to said employee's request;
transferring said funds from said financial institution to said employee via said employer; utilizing said funds for a predetermined economic activity by said employee;
remitting said funds to said financial institution from said employee's subsequent earnings via an electronic payroll of said employer system;
redepositing said funds, remitted to said financial institution, into said investment vehicle via said management entity; and
wherein the basis for the investment vehicle is the value of an employee's continuing employment with said employer.

2. The method of claim 1 wherein the investment vehicle is a securitized investment vehicle.

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3. The method of claim 1 wherein the predetermined economic activity is a real estate transaction.

4. The method of claim 1 wherein the request for said funds is made via conventional communication mechanisms.

5. The method of claim 1 wherein the investment vehicle further comprises signing an agreement by an employee directing subsequent employers to remit said funds to said financial institution.

6. A method for providing funding of and access to an investment vehicle, comprising the steps of:

- establishing an investment vehicle;
- monetizing said investment vehicle by depositing funds therein by a plurality of cash management investors;
- paying a subscription fee to a management entity by an employer;
- receiving a request for said funds by an employee of said employer via an internet interface, wherein funds of said employee and funds of a credit union organized by employees of said subscribing employer, of which said employee is a member, being independent from said funds deposited by said plurality of cash management investors in said investment vehicle;
- distributing said funds from said investment vehicle to a financial institution via said management entity upon direction of said management entity in response to said employee's request;
- transferring said funds from said financial institution to said employee via said employer;
- utilizing said funds for a predetermined economic activity by said employee;

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remitting said funds to said financial institution from said employee's subsequent earnings via an electronic payroll system of said employer;
redepositing said funds, remitted to said financial institution, into said investment vehicle via said management entity; and
wherein the basis for the investment vehicle is the value of an employee's continuing employment with said employer.

7. The method of claim 6 wherein the investment vehicle further comprises signing an agreement by an employee directing subsequent employers to remit said funds to said management entity.

8. The method of claim 6 wherein the investment vehicle is a securitized investment vehicle.

9. The method of claim 6 wherein the predetermined economic activity is a real estate transaction.

10. The method of claim 6 wherein the request for said funds is made via conventional communication mechanisms.

11. A method for providing funding of and access to an investment vehicle, comprising the steps of:

establishing an investment vehicle;
monetizing said investment vehicle by depositing funds therein by a plurality of cash management investors;
paying a subscription fee to a management entity by an employer;
receiving a request for said funds by an employee of said employer via an internet interface, wherein said funds deposited in said investment vehicle are selected from a group independent from funds of

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said employee and funds of a credit union organized by employees of said subscribing employer, of which said employee is a member;

distributing said funds from said investment vehicle to a financial institution via management entity upon direction of said management entity in response to said employee's request;

transferring said funds from said financial institution to said employee via said employer;

utilizing said funds for a predetermined economic activity by said employee;

remitting said funds to said financial institution from said employee's subsequent earnings via an electronic payroll system of said employer;

redepositing said funds, remitted to said financial institution, into said investment vehicle via said management entity; and

wherein the basis for the investment vehicle is the value of an employee's continuing employment with said employer.

12. The method of claim 11 wherein the predetermined economic activity is a real estate transaction.

13. The method of claim 11 wherein the investment vehicle further comprises signing an agreement by an employee directing subsequent employers to remit said funds to said management entity.

14. The method of claim 11 wherein the request for said funds is made via conventional communication mechanisms.

15. The method of claim 11 wherein the investment vehicle is a securitized investment vehicle.

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IV. RELEVANCE AND SUMMARY OF WORK

The Infinity Technologies Fund (ITF) was founded by His Excellency Awad Mohd Sheikh Majrin Bin Sultan, Farhan Qadir and Ilya Churakov. ITF's macro strategy invested over 500M\$ of assets.

In 2017, ITF started investing in digital assets. Currently, ITF manages 20M\$ in digital assets, real estate, and infrastructure.



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The work of science “**Concept of Digital Assets Investments Strategy of Infinity Technologies Fund**” provides investors with a full spectrum of exposures to the space, ranging from Venture capital assets (including early-stage tokens and multi-stage venture equity) to more liquid assets like publicly traded tokens and cryptocurrency.



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Moreover, the work of science “**Concept of Digital Assets Investments Strategy of Infinity Technologies Fund**” is a way ITF diversifies its investment portfolio that best balances risk and reward. It protects the investment portfolio from losses associated with the natural fluctuations that all markets experience.

Likewise, investment portfolios that contain a balanced mix of assets tend to generate higher returns and experience lower losses than any single asset within the portfolio. As ITF believes that its extremely unlikely that every market from stocks to bonds, real estate, currencies, valuables, and beyond will bottom out at the same time, the risk of experiencing dramatic losses decreases as the investments become more diverse. Thus, ITF believes that there is no other way to diversify but through digital assets.

Furthermore, the meaning of the word wealth has changed drastically nowadays. Wealth is no longer determined simply by bags of gold and acres of farmable land. Today, wealth lies in new, technology-enabled investment opportunities - digital assets.

Thus, ITF was formed to provide investors with a full spectrum of exposures to the space, ranging from Venture capital assets (including early-stage tokens and multi-stage venture equity) to more liquid assets like publicly traded tokens and cryptocurrency.

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The work of science “**Concept of Digital Assets Investments Strategy of Infinity Technologies Fund**” provides diversification, social and valuable projects, and a long-term vision.

ITF portfolio strategies focuses on the following resources to meet its strategic objectives:

- **VENTURE**

Actively managed, multi-stage exposure to companies building products and services

- **LIQUID TOKEN**

Actively Manage exposure to publicly traded digital assets

- **EQUITY**

Actively managed exposure to fast-growing companies and infrastructure projects

- **DIGITAL ASSETS**

Passive exposure to liquidity digital assets.

The work of science “**Concept of Digital Assets Investments Strategy of Infinity Technologies Fund**” will be launching its first ITF fund in October 2022 with a volume target of 20M\$ and an ROI of 35% yearly.

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Launch: October 2022

Volume Target: 20M\$

ROI Target: 35% yearly

Liquidity: quarterly

Management Fee: 5%

Performance Fee: 30%

Minimum Investment: \$100,000

Legal: IP Shares, Consolidated composite Copyright work on international standard in 180 countries

RISK MANAGEMENT

In addition, another strategy that ITF utilizes to achieve its goals is risk management. It is a central part of any organization's strategic management. ITF methodically addresses the risks attached to their activities with the goal of achieving sustained benefit within each activity and across the portfolio of all activities.

Similarly, ITF spends a considerable amount of time managing risk, striving to take the appropriate amount of risk, of the appropriate kind, at the appropriate time. In practice, this requires having a risk appetite that is extraordinarily responsible to three types of indicators of evolving market conditions:

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SENTIMENT DATA

Gauge confidence and conviction of market participants using social media activity data, search engine queries, viral trends, and more.

ON-CHAIN DATA

Various on-chain metrics can be a good source of predictive market signals e.g. amount of BTC moved off exchanges, data on unrealized profits of holders, and coins held by short-term speculators.

TECHNICAL DATA

Data helps predict when trading trends will break or intensify. By tracking price movements and technical patterns, we capitalize on volatility and position ourselves ahead of market corrections.

Additionally, another factor that ITF considers as indispensable in every portfolio management is the investment approach. As it is in this aspect where ITF conducts a deep analysis of its investor's goals and interests as well as market strengths, weaknesses, opportunities, and threats to then tailor the perfect investment choices.

The following are the ITF approach:

TECHNICAL TALENT

Investment team includes senior professionals with engineering degrees.

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VALUE-ADD

ITF provides portfolio companies with guidance and tools for success. Resources range from technical feedback, team building, legal guidance, M&A strategy, and more.

INFRASTRUCTURE

Best-in-class trading infrastructure and tools for trade execution. Strong relationships with prime brokerages, exchanges, and custodians.

LEADERSHIP

The team has decades of experience at top-tier financial firms.

DEAL FLOW

Unparalleled deal flow garnered through a reputation for success, established network, and value-add. ITF has led and participated in many of the biggest deals in the industry.

NETWORK

ITF community includes over 100 blockchain projects with best-in-class developers and entrepreneurs. Active deal management provides counsel, funding, cross-pollination, referrals, M&A guidance.

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The target audience of this Work of Science – **“Concept of Digital Assets Investments Strategy of Infinity Technologies Fund”** are professional investors, finance institutions, owners of NFT, Blockchain and Metaverse companies, business owners/private investors and any crypto holders who want to participate in the digital asset economy and with fair investment knowledge and a vision in the investment markets.

Moreover, this Work of Science – **“Concept of Digital Assets Investments Strategy of Infinity Technologies Fund”** can be used in the world using a mobile phone, desktop, laptop, and other devices with a graphic display with internet access.

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V. LEGAL BASIS

Examination of the current the work of science – **“Concept of Digital Assets Investments Strategy of Infinity Technologies Fund”** was held by the Intellectual Property Expert Dr. Sandjar Muminov based on following international (WIPO) and the normative legal acts of the United Kingdom and United Arab Emirates:

1. Berne Convention for the Protection of Literary and Artistic Works of 9 September 1886 in Paris, complemented by 4 May 1896, revised in Berlin on 13 November 1908. Supplemented in Bern on March 20, 1914, and revised in Rome on June 2, 1928, in Brussels on June 26, 1948, in Stockholm on July 14, 1967, and in Paris on 24 July 1971, as amended September 28, 1979 (the UAE acceded to the Berne Convention in 2004)

2. The Federal Law Number 38 of 2021 of the United Arab Emirates “On Copyright and Neighboring Rights”.

3. The Federal Law Number 7 of 2008 of the United Arab Emirates on “The National Centre for Documentation and Research”.

4. The Federal Law Number 5 of 2012 (as amended) of the United Arab Emirates “On Combating Cybercrimes”.

5. The Federal Law Number 8 of 1984 of the United Arab Emirates "Concerning Commercial Companies”.

6. The Federal Law Number 3 of 1983 of the United Arab Emirates “On the Federal Judiciary Authority”.

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7. The Federal Law Number 31 of 2006 of the United Arab Emirates “Pertaining to the Industrial Regulation and Protection of Patents, Industrial Drawings, and Designs”.

8. The Federal Law Number 18 of the United Arab Emirates “Concerning Commercial Transactions Law”.

9. The Ministerial Order № 133 of 2004 “On copyright collective”.

10. The Ministerial Resolution No. 411 of 1993 “On control over the intellectual works protected under UAE Federal Law no. 40 of 1992 “On copyrights and author’s rights”.

11. United Kingdom Copyright, Designs and Patents Act (1988)

12. United Kingdom Copyright, Designs and Patents Act (1988) Part I 'Copyright' Chapter I, Article 1. and Article 143

13. United Kingdom Arbitration Act 1996 (Chapter 23, updated up to January 27, 2021)

14. United Kingdom Competition Act 1998 (Chapter 41, updated up to March 26, 2021)

VI. SOURCES OF REFERENCES

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1. PATENT NO. US20180068382A1– Systems and Methods for Managing a Financial Investment Fund

2. PATENT NO. US20090018969A1 – Systems and Methods for Providing Investment Strategies

3. PATENT NO. US7761376B2 – Method for Providing Funding Of and Access to an Investment Vehicle

4. WIKIPEDIA - www.wikipedia.org - a multilingual, web-based, free-content encyclopedia project supported by the Wikimedia Foundation and based on a model of openly editable content.

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VII. INFORMATION ABOUT THE EXPERT

Dr. Sandjar Muminov has 25 years' experience in the intellectual property industry. His professional merits and achievements include:

- Eurasian Commissioner on Law Supremacy and Intellectual Property of EECO (Eurasian Economic Cooperation Organization), Head Offices in Russia, China and UAE, regional offices in 50 countries (www.eurasianeconomic.org)
- President of SANDJAR GROUP Business Consortium (GCC, Dubai, UAE)
- Expert of Dubai Silicon Oasis Authority
- Speaker of the University of Dubai (UAE)
- Authorized Expert of INTEROCO Copyright Office (Germany)
- Member of International Intellectual Property Law Association (USA)
- and others.

Expert Specializations of Dr. Sandjar Muminov:

- Private advisor on all issues concerning IP legal protection (patent, commercial & Copyright law)
- Startup and investments projects
- Commercialization & capitalization of intellectual property
- Protection of copyright, know-how, trade secrets, etc.

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In 2018 and 2019, Dr. Sandjar Muminov was recognized as a World TOP-5 Intellectual Property Expert (International Intellectual Property Law Association, US-UK).



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27.08.2020
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