

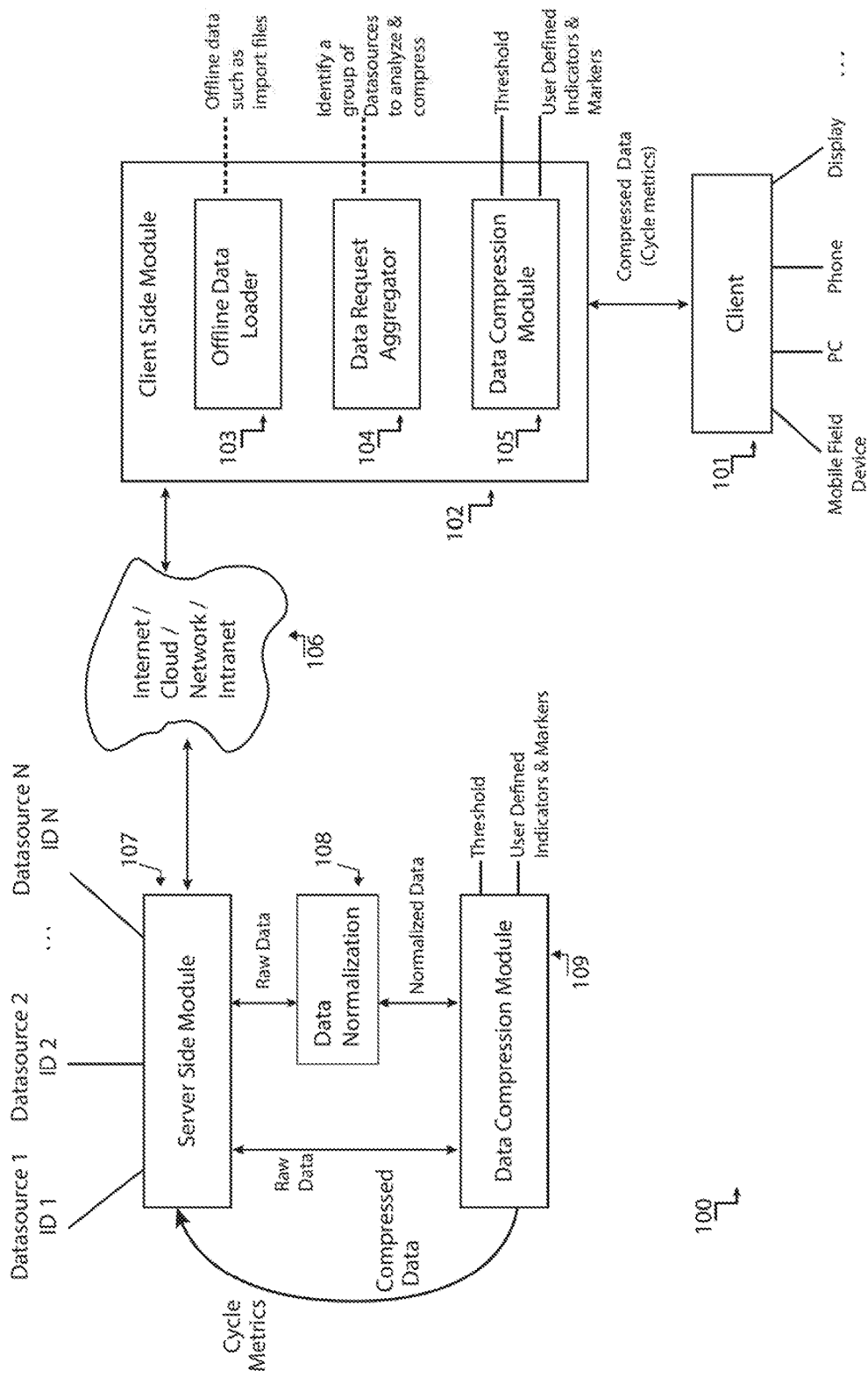


FIG. 1

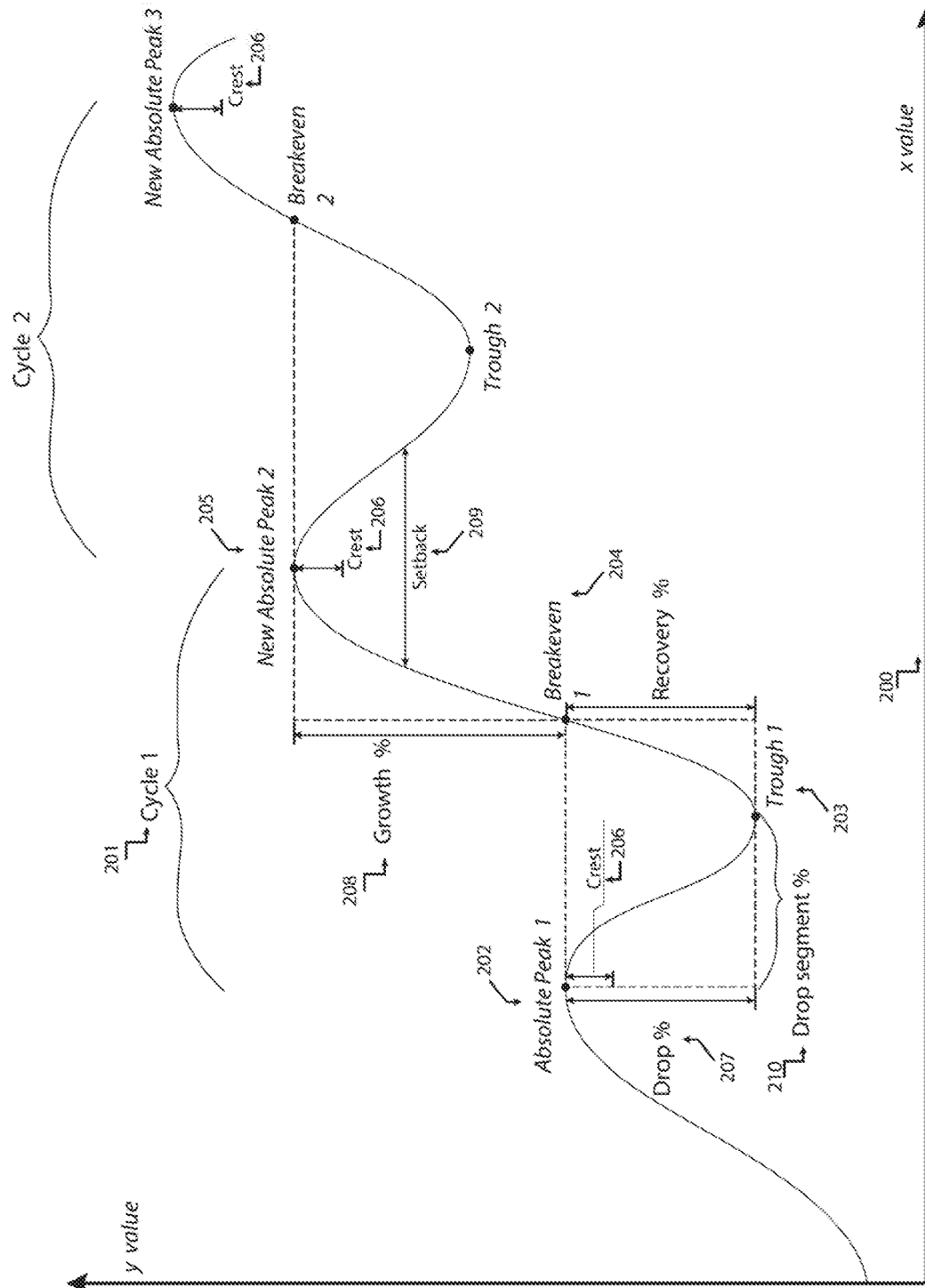
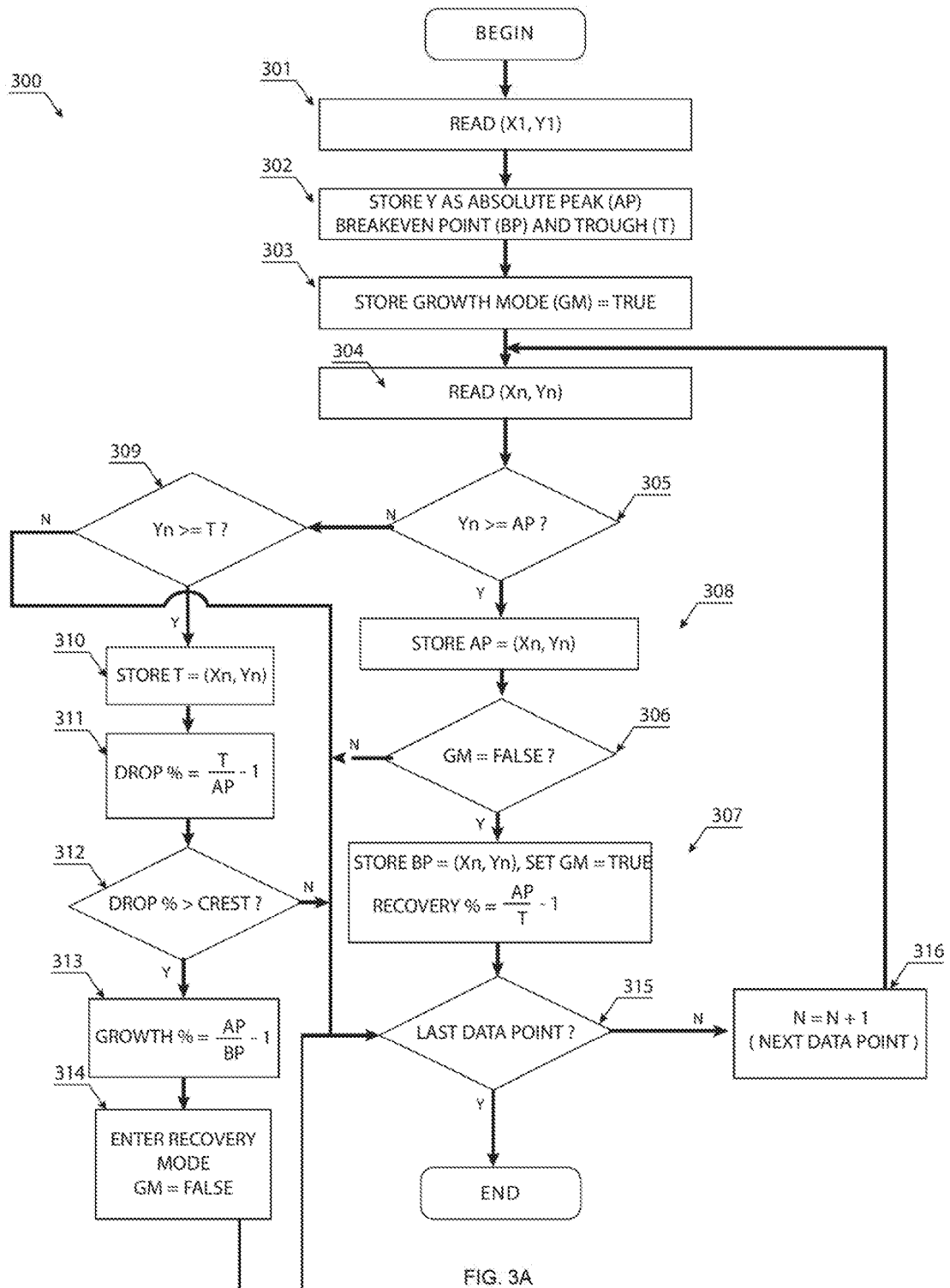


FIG. 2



```

type alias Xval = Float
type alias Yval = Float
type alias Percentage = Float
type alias DataPoint = (Xval, Yval)

type alias Process = {
  , GrowthMode: Bool
  , CrestThreshold: Float
  , Nth: Integer
}

type alias Cycle = {
  , DropPercent: Percentage
  , GrowthPercent: Percentage
  , AbsPeak_AP: DataPoint
  , Trough_T: DataPoint
  , Endpoint: Boolean
}

type alias Indicator = {
  , Point : DataPoint
  , Value: Percentage
  , Type: String
}

type alias CompressedDataStream = {
  , CycleList : List Cycle
  , Indicators : List Indicator
}

```

True if we've broken breakeven,
False if we are looking for breakeven

Threshold that determines a new cycle

The Nth data point to be analyzed

Is this an incomplete cycle
at beginning or ending

FIG. 3B

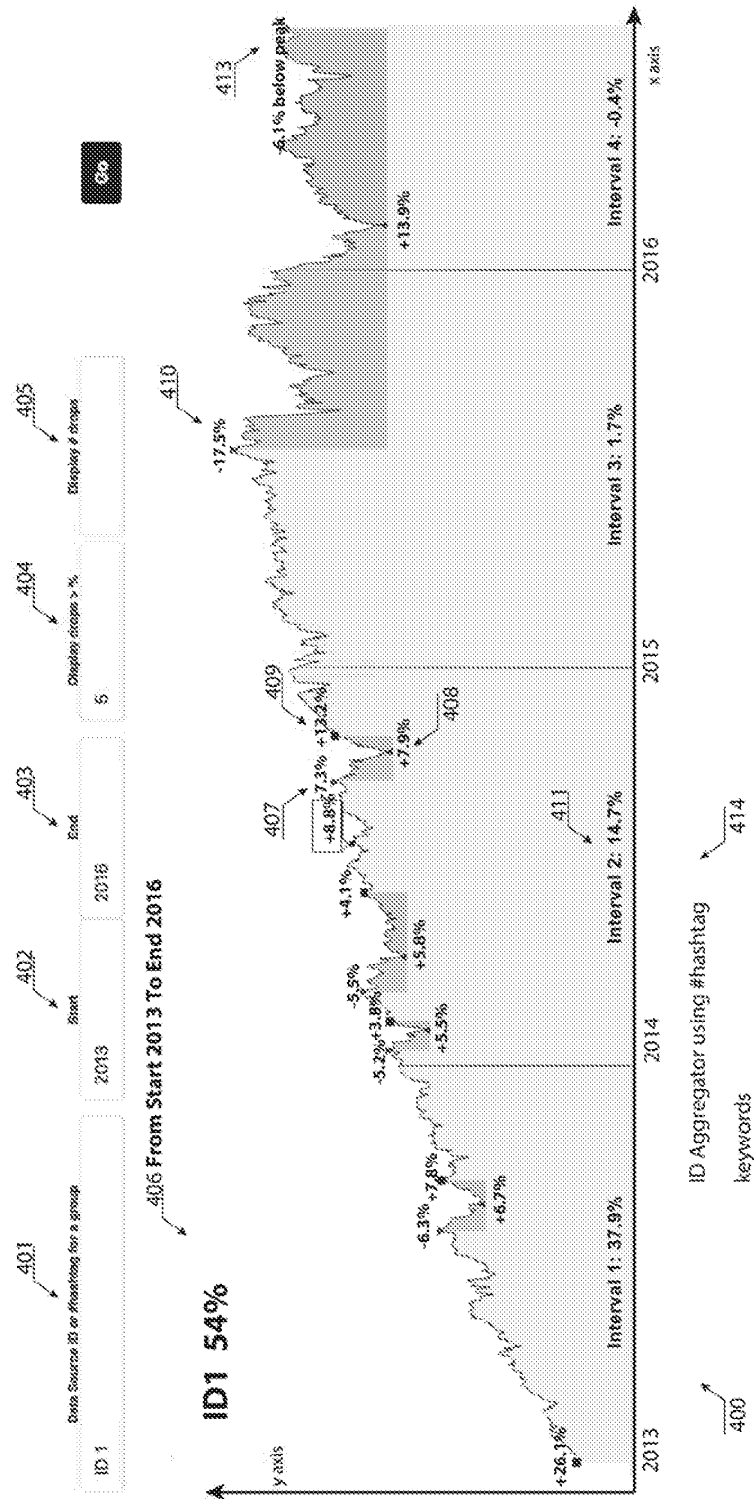


FIG. 4

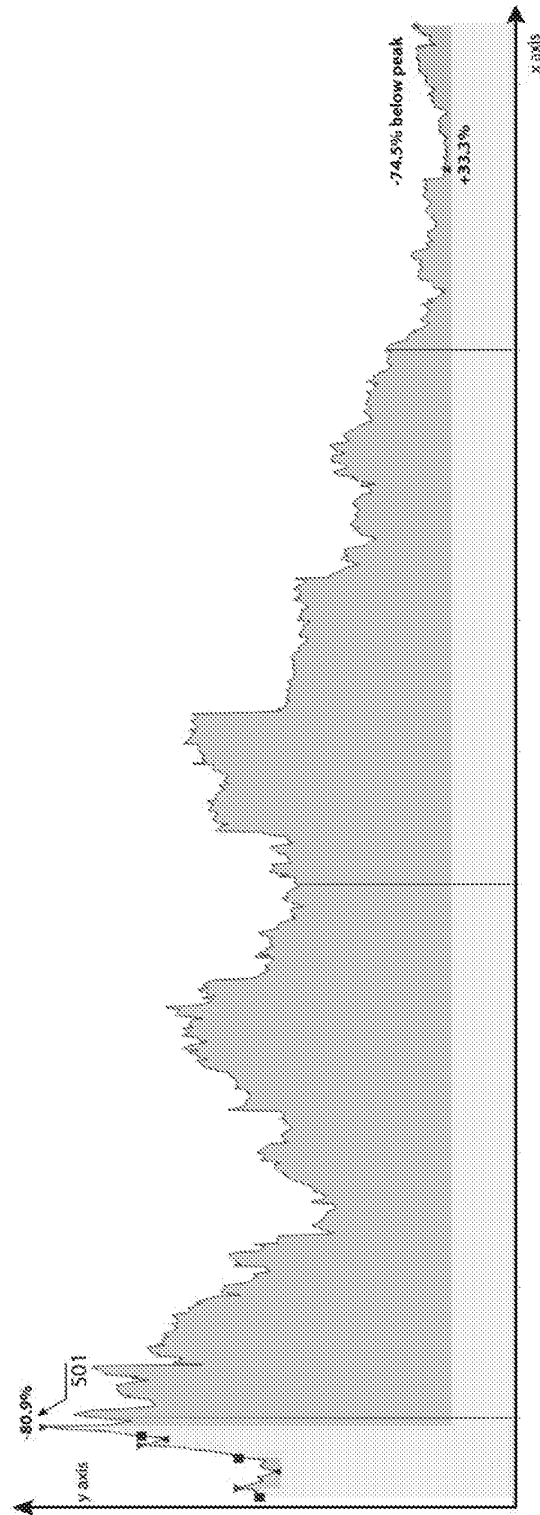


FIG. 5

Cycles & Indicators	Reason for Change Metrics
Drop Percentage Change	Drop Reason
Recovery Percentage Change	Recovery Reason
Growth Percentage Change	Growth Reason
Total Percentage Change	Total Change Reason
Period % Change	Periodic Change Reason
User Defined Zone % Change	User Defined Zone Return Reason

Possible Reasons Include: Network attack, heart beat, event start, blood pressure, heart attack, earthquake, virus infection, global warming, population injury, financial crisis, devaluation, abnormality and recovery, population anomaly, etc.

FIG. 6

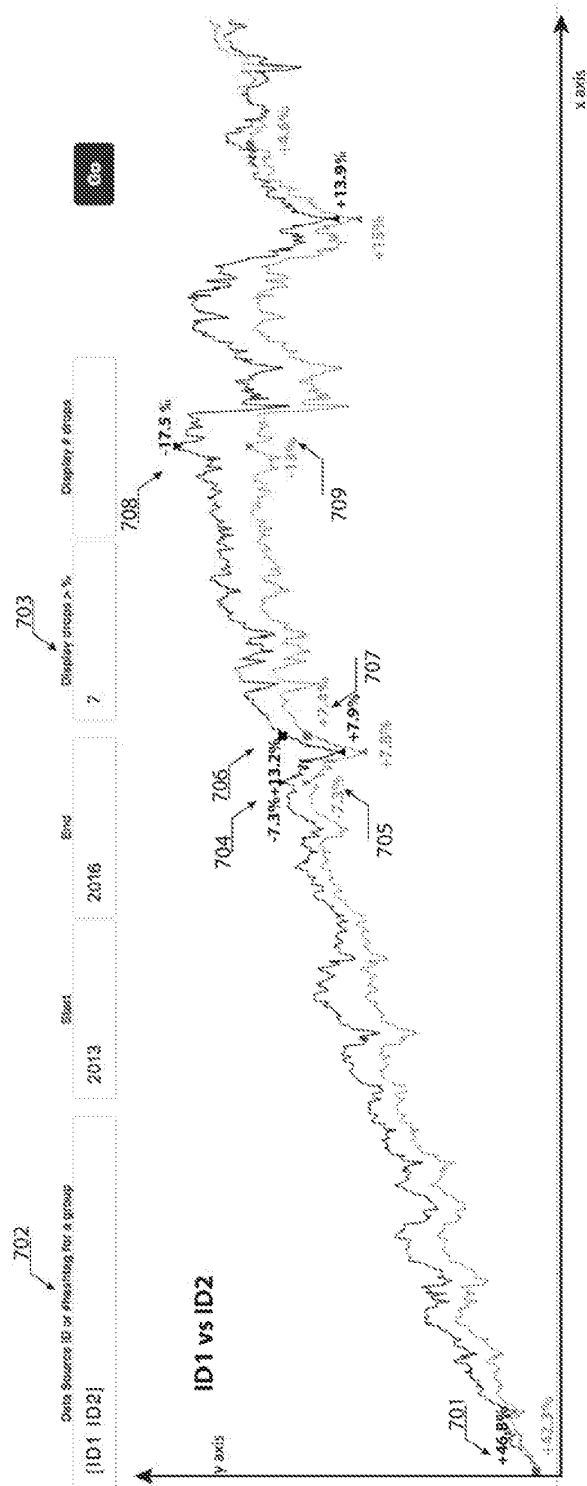


FIG. 7



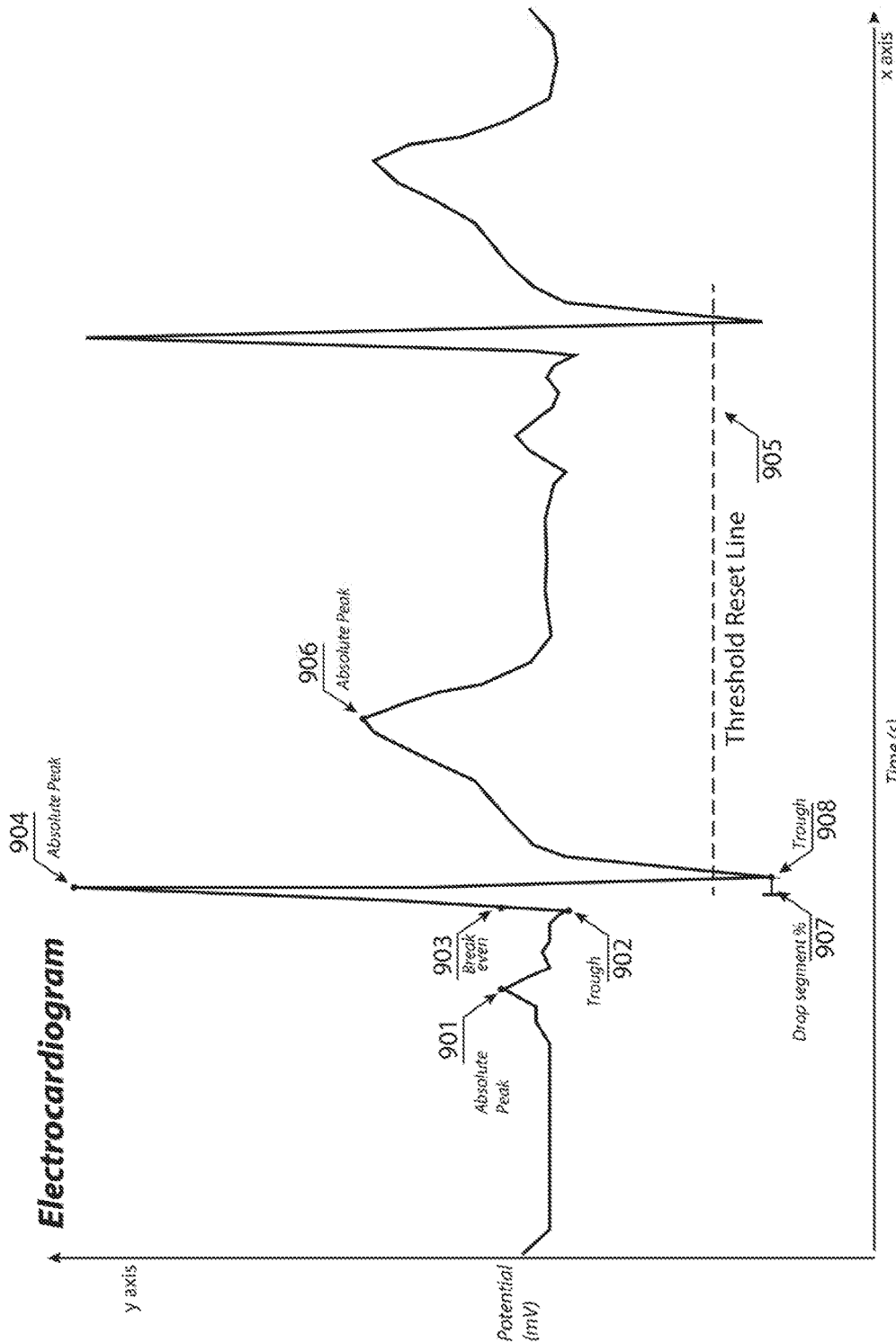


FIG. 9

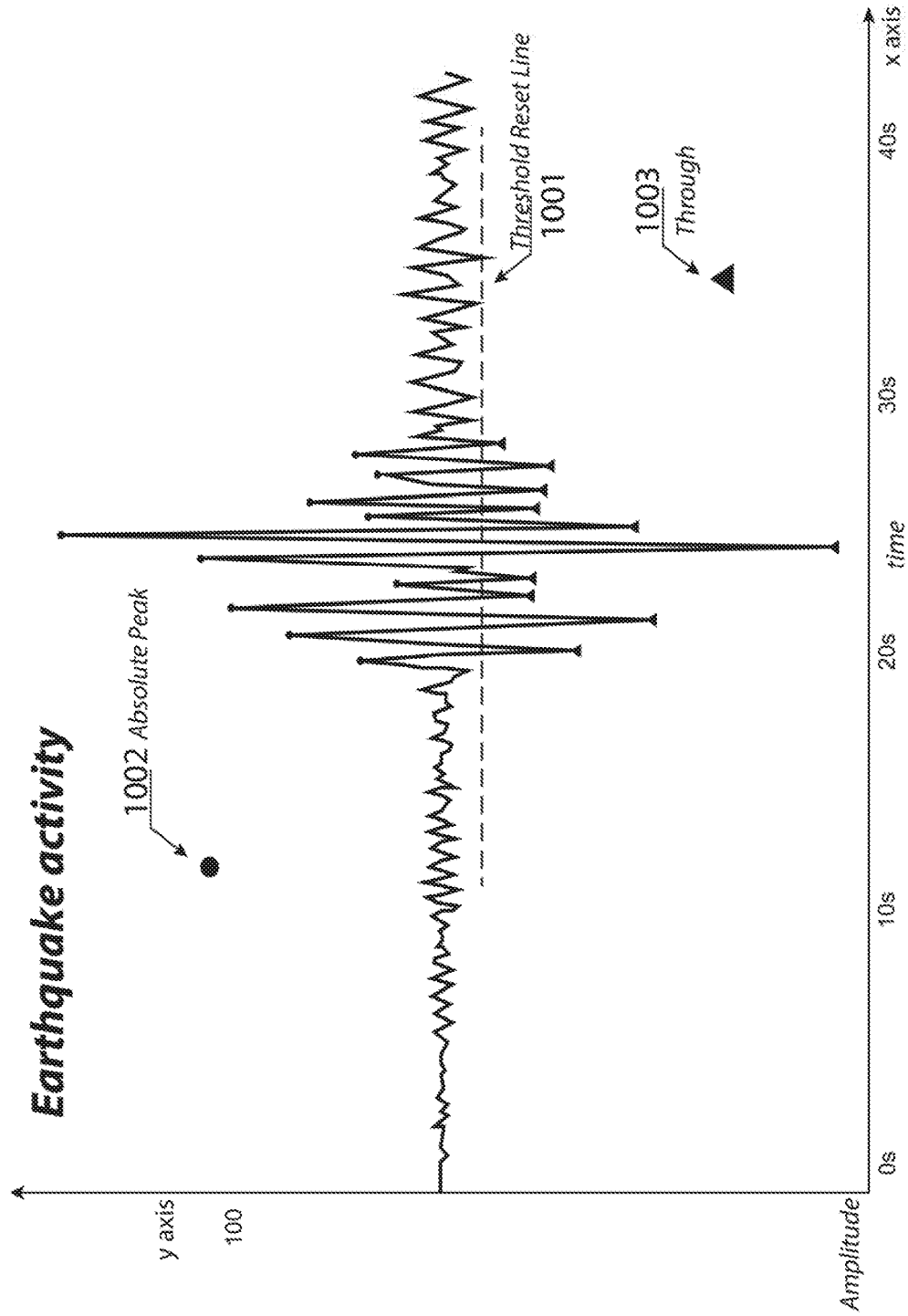


FIG. 10

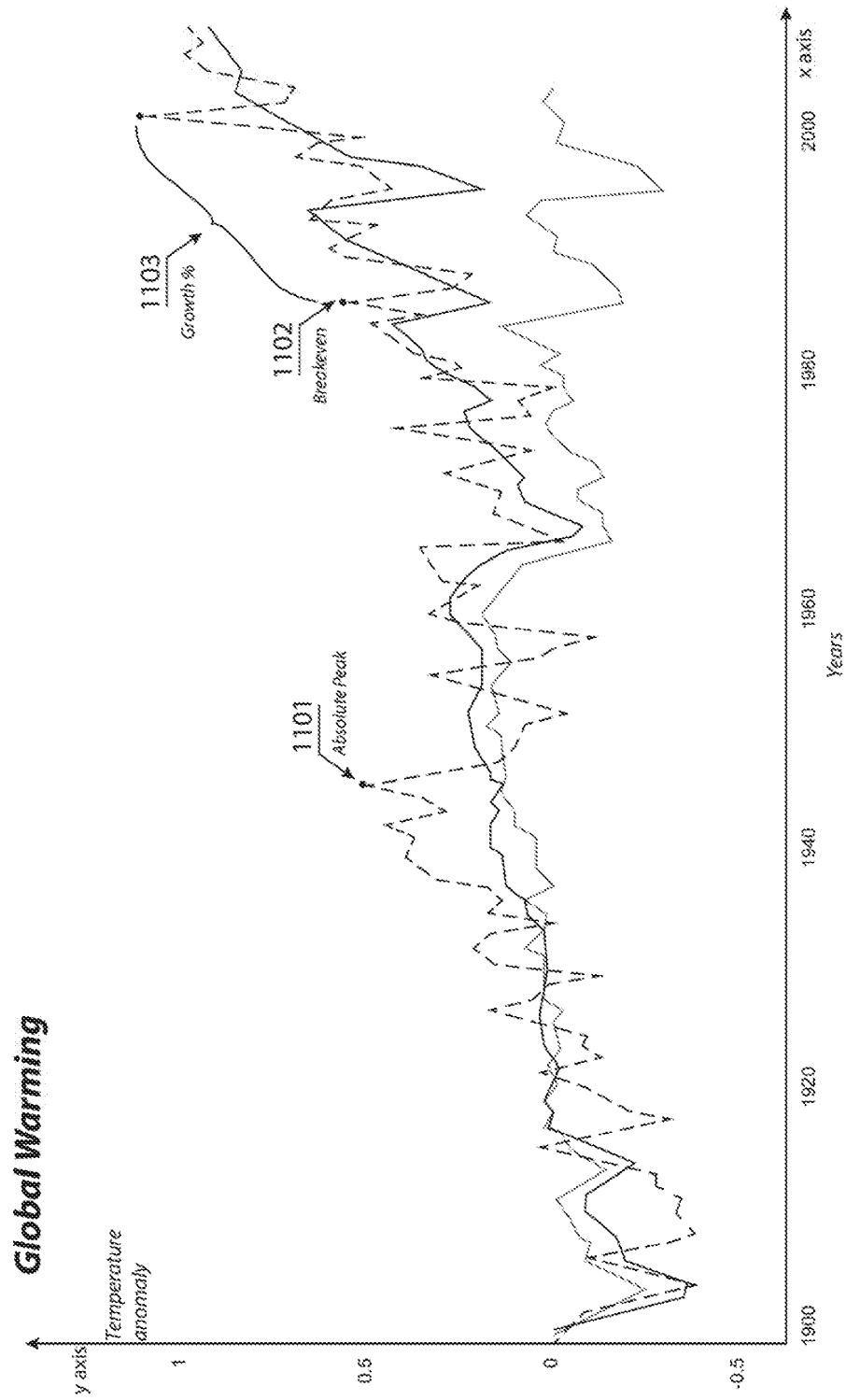


FIG. 11

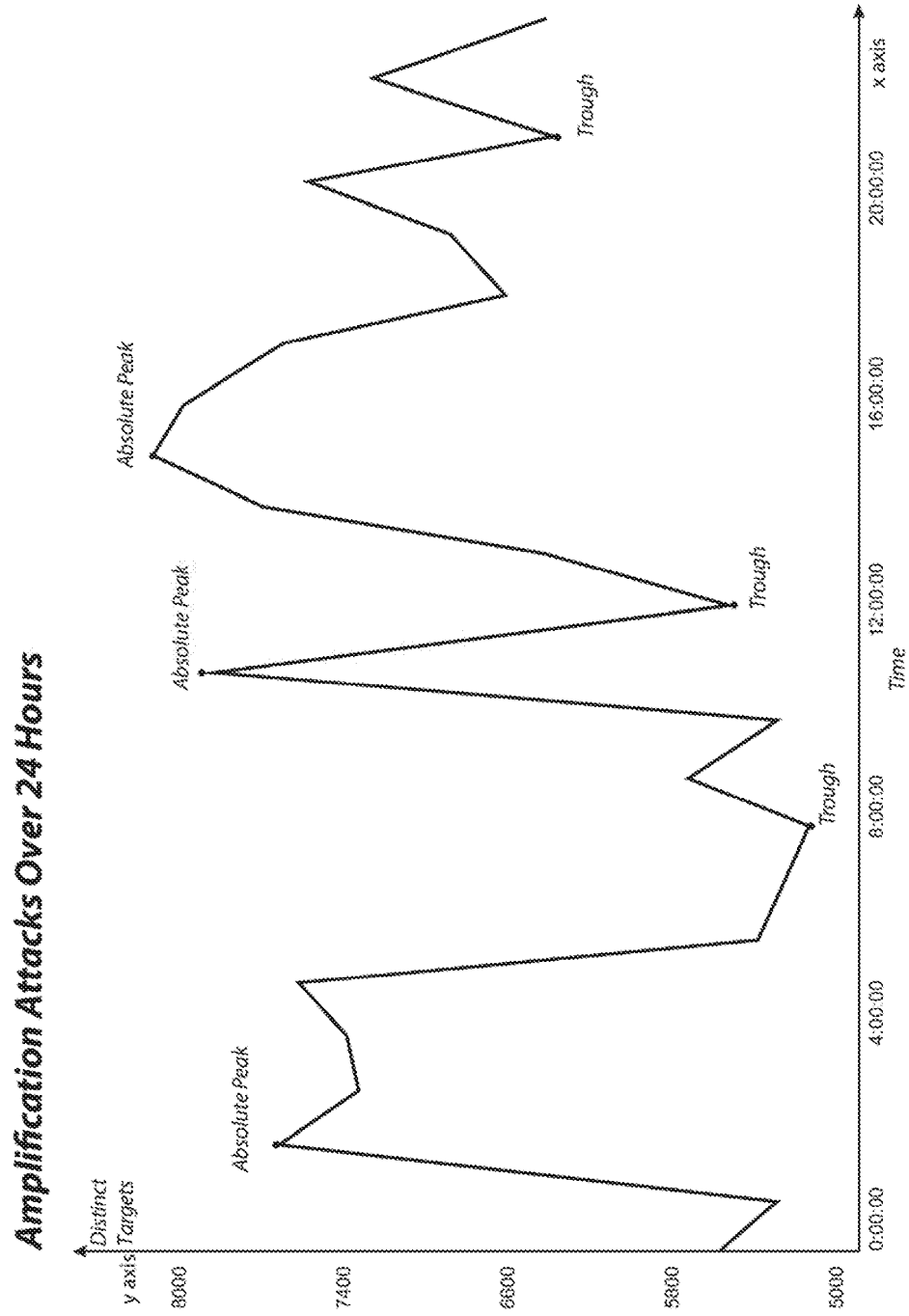


FIG. 12

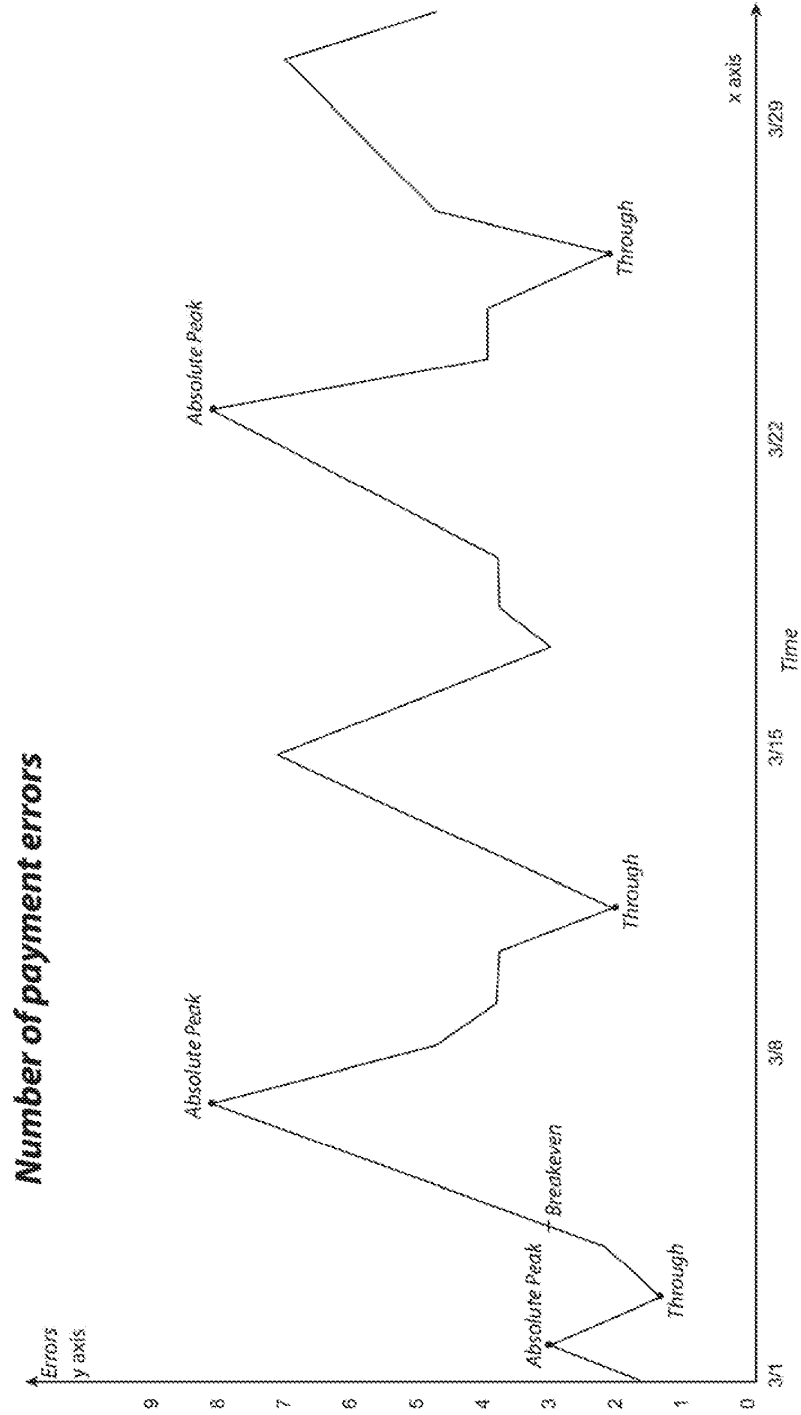


FIG. 13



Chart Elements

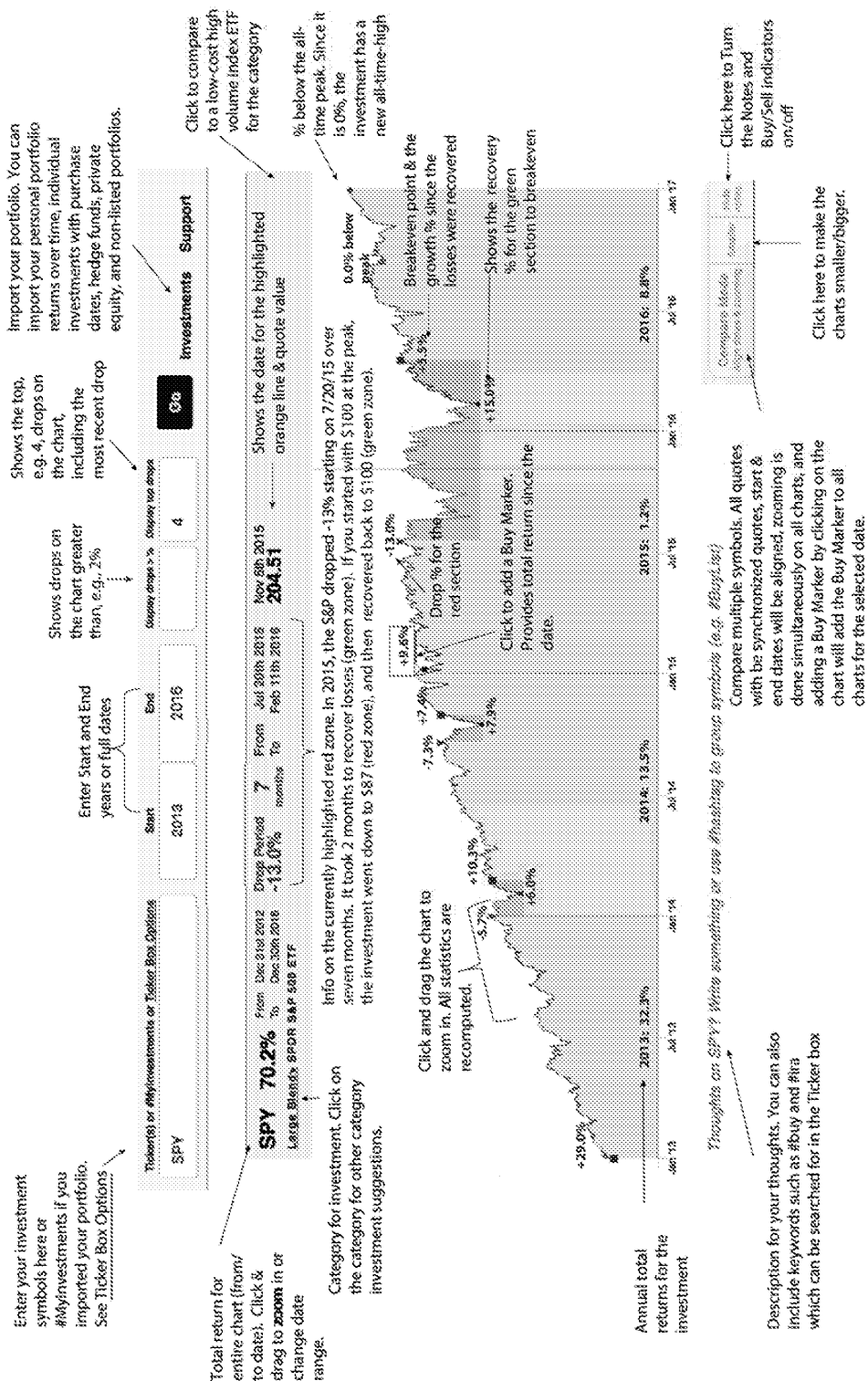


FIG. 14B

Ticker Box Options

Example:	Purpose:
?Real Estate	Searches for occurrences of "Real Estate" in categories names and investments names and provides the list.
SPY, AGG	Draws a total return (performance) chart of SPY & AGG on separate charts
AGG, -AGG	-AGG strips out the dividends & distributions and provides a Price Chart. This is what the normal charting tools like Yahoo Finance & Google Finance provide. This example draws the performance and price charts of AGG on separate charts.
(60 SPY 40 AGG)	Draws a combined portfolio (e.g. 60% SPY and 40% AGG). The first data point assumes \$60 is in SPY and \$40 in AGG. The growth of \$100 is plotted over time and dividends are assumed to be reinvested.
[SPY AGG]	Draws a relative value chart of SPY and AGG. Both are plotted on the same chart, each value starting with \$100, with dividends and distributions reinvested.
#Keyword	Finds and displays all charts with the #Keyword in the Note field of the chart. For example, if you entered #MyInvestments in the Note box for 5 of your personal investments, those 5 investments will be shown. Use this to create a #Watch, or #Buy, or any other combination.

FIG. 14C



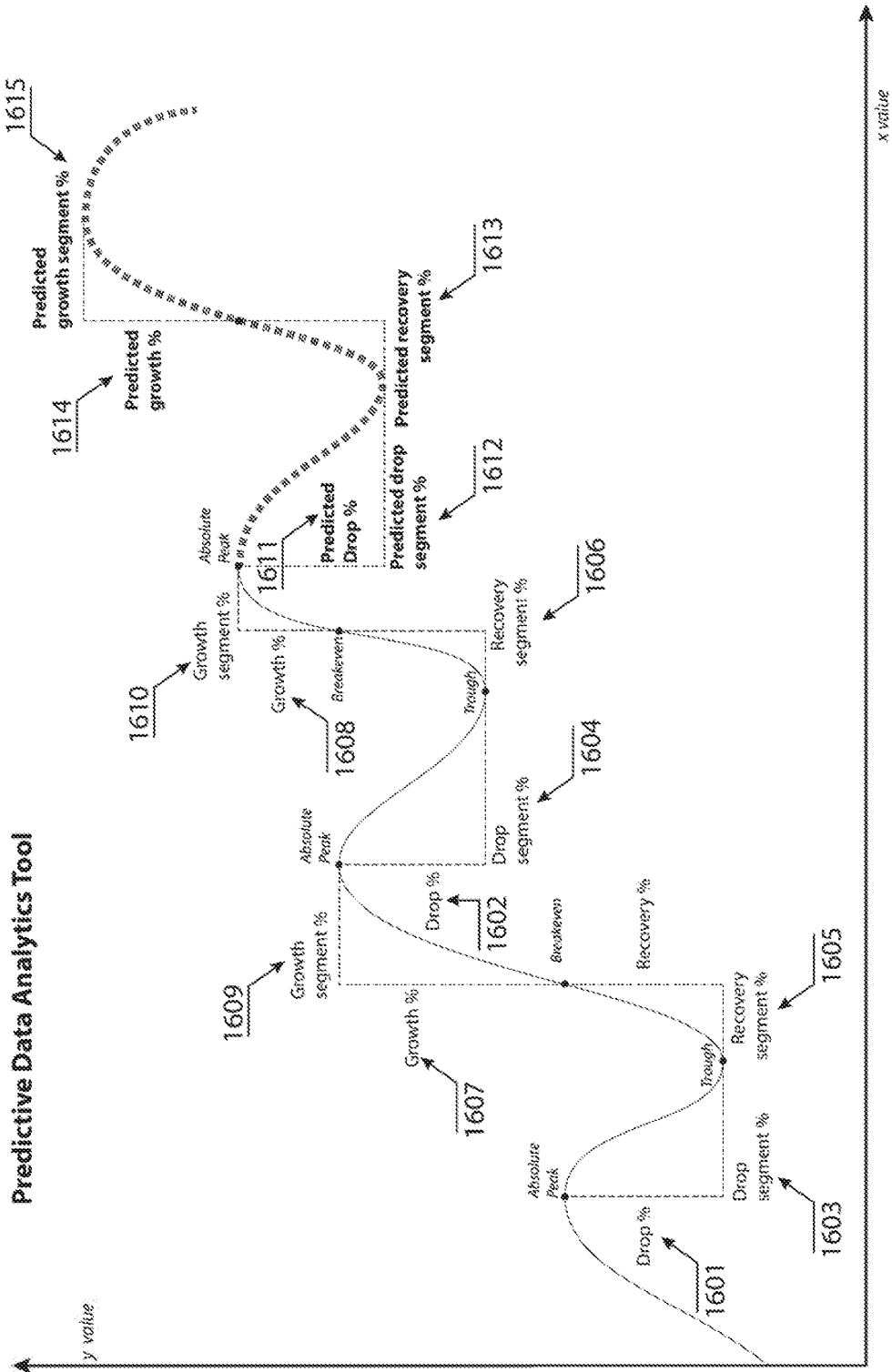
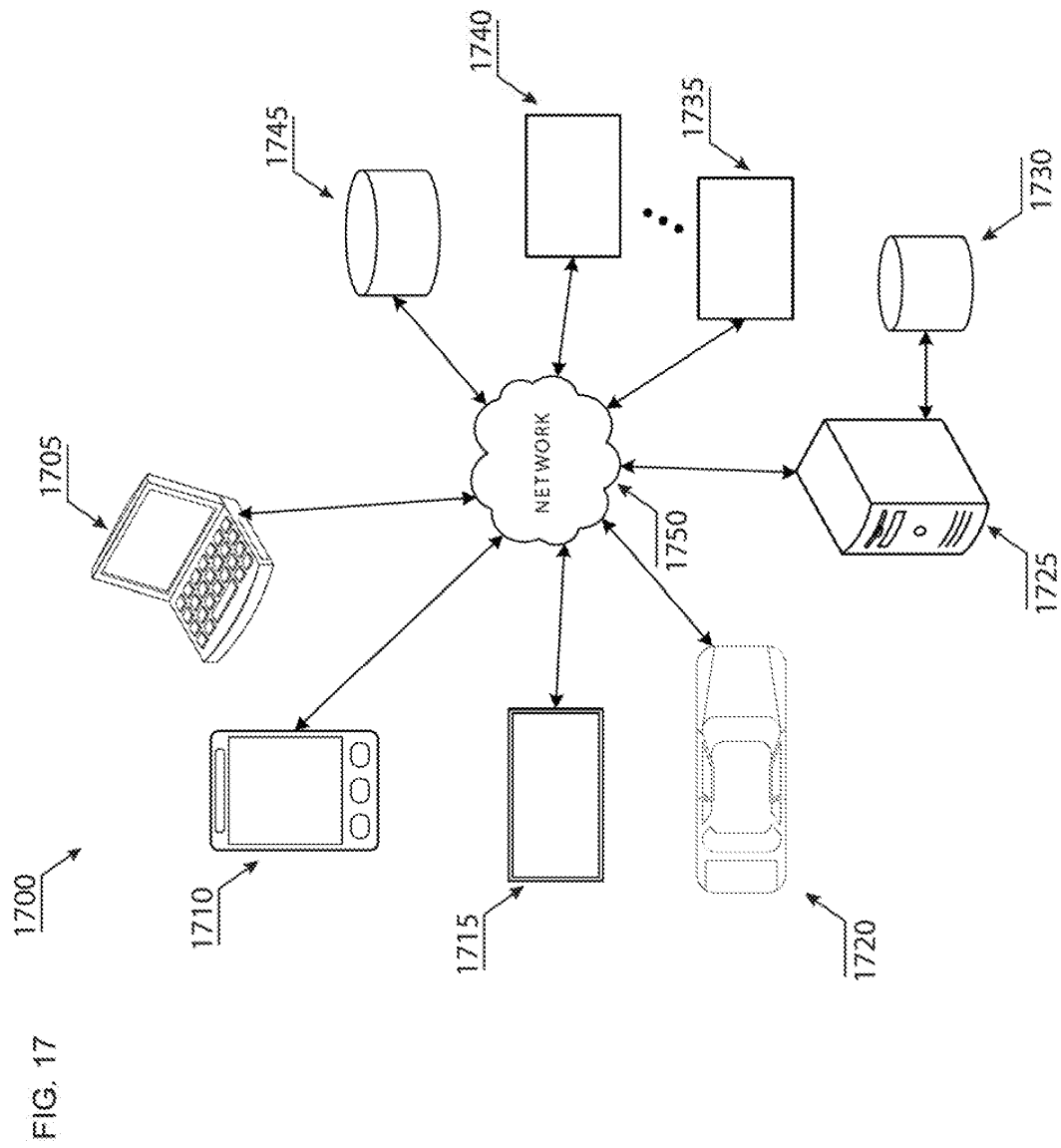


FIG. 16



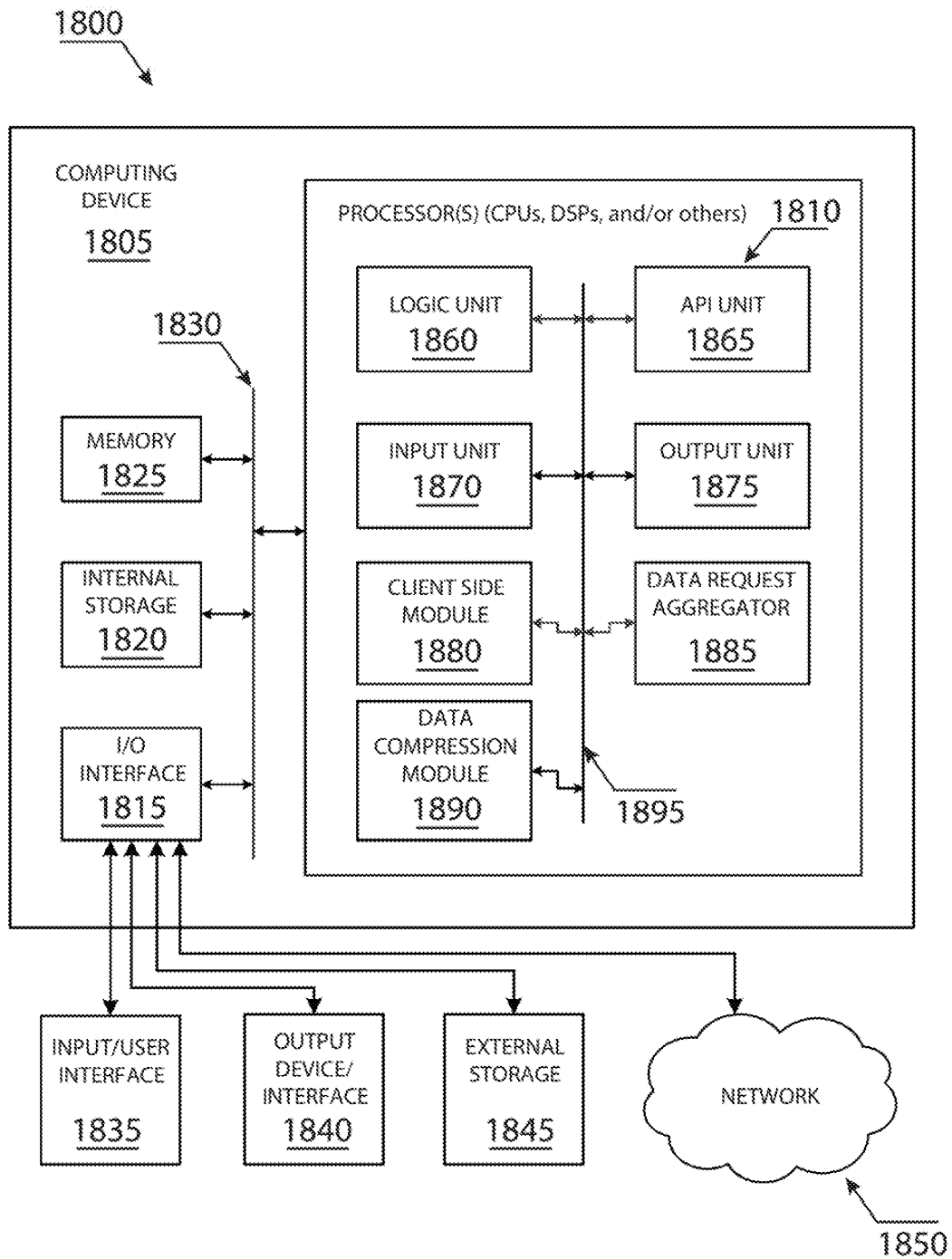


FIG. 18



Thoughts on SPY? Write something or use #hashtag to group symbols (e.g. #BuyList)

XPS

29
G.
E.

SCHW Schwab US REIT ETFM

total performance FROM: Dec 31st 2015 TO: Dec 27th 2017

+8.9%

Expense Ratio: **0.07%**

TTM Yield **2.58%**

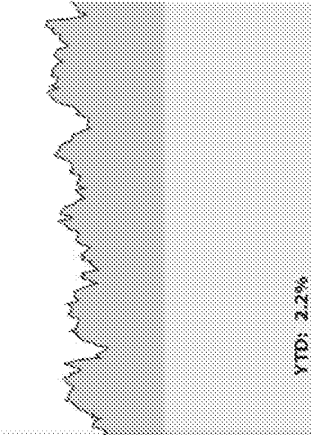
category: **Real Estate**
click for details

2103

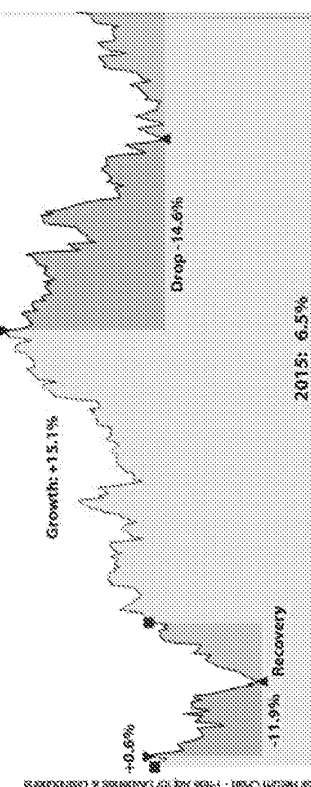
-6.0%
below peak

2101

2102



Real Estate EQUAL WEIGHT
Highest US GDP beta of any sector in the S&P, rents typically rise with inflation. Underweight by large cap active funds (particularly when compared to other bond proxy sectors). More attractive dividend yield than Staples and Utilities along with dividend growth opportunity. Hurt by rising rates, benefits least from lower domestic taxes/repatriation, some rents rolling over. Specialty REIT. Hurt by rising rates, benefits least from lower domestic taxes/repatriation, some rents rolling over. Most GDP-sensitive sector; good combination of dividend yield plus dividend growth. Hurt by rising rates but can lead to better property cash flows.
Highyield Subsections: Specialty REIT Report January 10, 2017.



Add to watchlist

Thoughts on SCHW? Write something or use #hashing to group symbols (e.g. #Buy1 list)

FIG. 21

Your Watchlist

Statistics as of Dec 01 2017

Category	YTD Return	1YR Return	6M Money Flow	Expense Ratio	1YR Status ▼
VTIP <u>Inflation-Protected</u> <u>Bond</u>	Vanguard Short-Term Infl-Plot Secs ETF YTD Return -0.9%	1YR Return 1.0%	6M Money Flow \$3B	Expense Ratio 0.1%	 Dropping 2203
IEF <u>Long Government</u>	iShares 7-10 Year Treasury Bond ETF YTD Return 1.8%	1YR Return 2.9%	6M Money Flow \$215M	Expense Ratio 0.2%	 Recovering
DBLTX <u>Intermediate-Term</u> <u>Bond</u>	DoubleLine Total Return Bond I YTD Return 3.5%	1YR Return 3.8%	6M Money Flow \$-666M	Expense Ratio 0.5%	 Recovering 2204
FVD <u>Large Value</u>	PowerShares S&P 500 Low Volatility ETF YTD Return 11.5%	1YR Return 15.9%	6M Money Flow \$351M	Expense Ratio 0.7%	 Stable within -3.7% last high 22 days ago click to show Chart 2202
NKTR <u>Health</u>	Nektar Therapeutics YTD Return 389.0%	1YR Return 365.8%	6M Money Flow -	Expense Ratio -	 Growing 2201

FIG. 22