

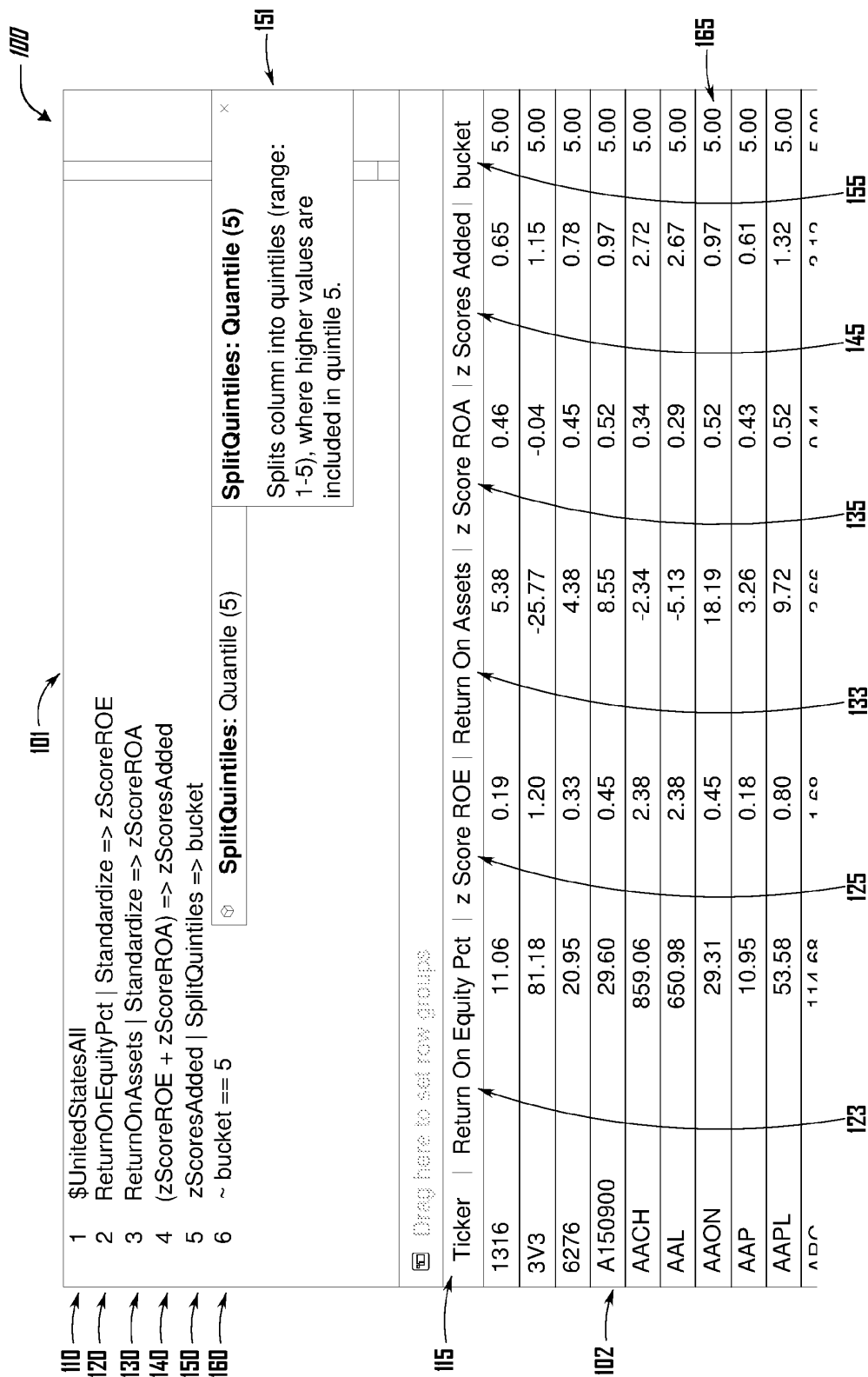
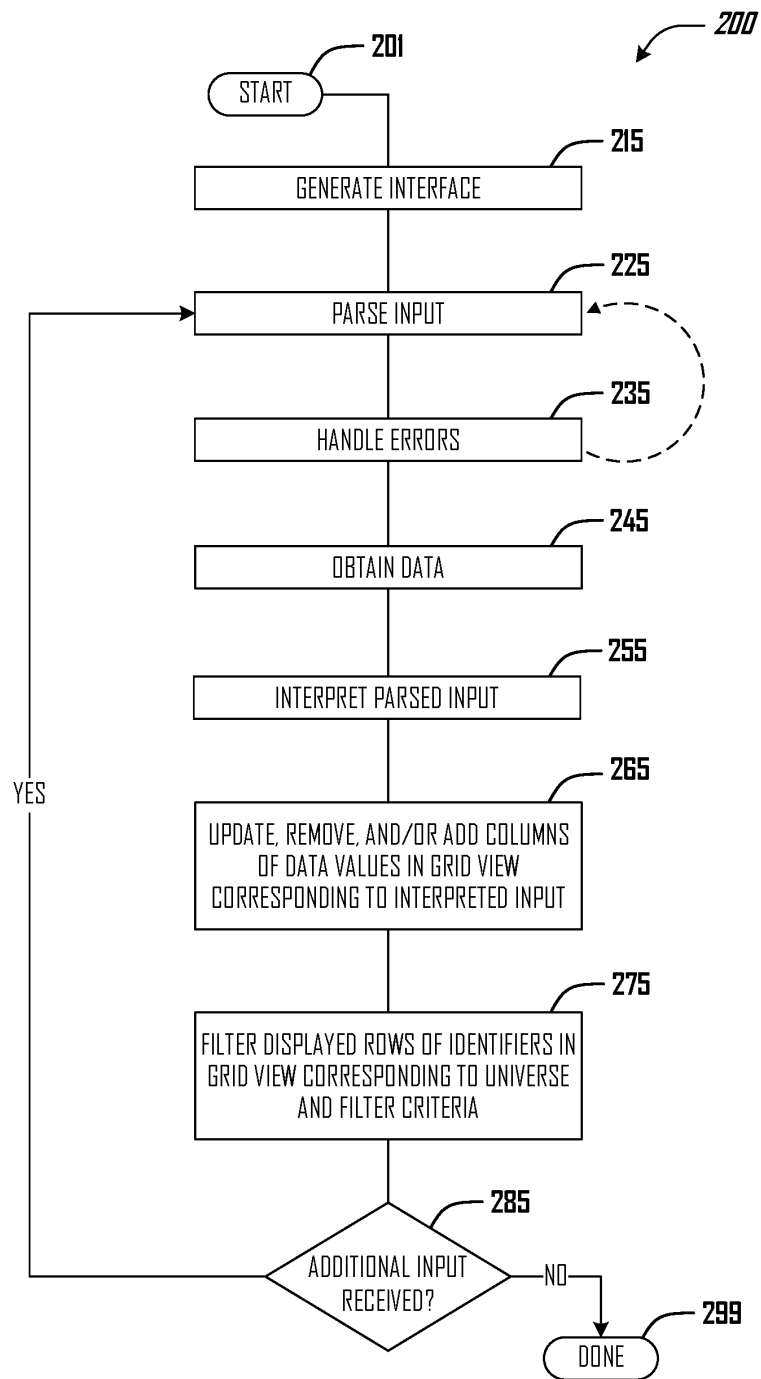


Fig. 1

**Fig. 2**

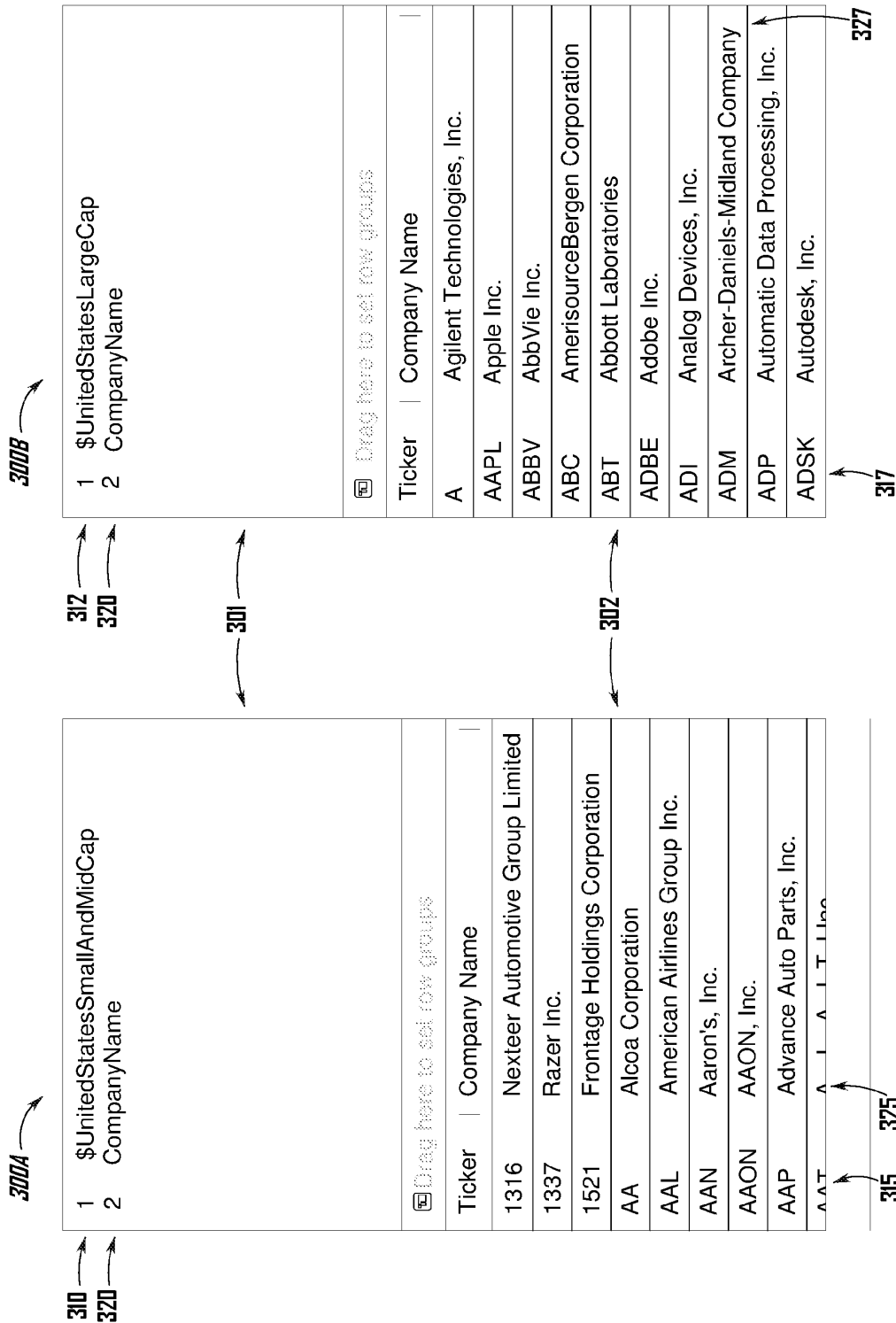


Fig. 3B

Fig. 3A

400

Create New Universe

Universe Name

United Universe

Requirement: alphanumeric characters only, no spaces. You will be able to reference this by selecting \$MyUniverseName at the top of your screens.

Country Constituents (required)

Search...

Market Cap Range (millions USD)

0

No maximum

Minimum Liquidity (millions USD)

0

6 month (126 trading day) average of daily close price * volume

Benchmark Index

add Loading... ▾

This index will be used as a benchmark during backtesting

Create Universe

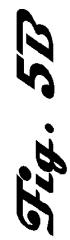
420

430

Fig. 4

500	
501	
1 \$UnitedStatesLargeCap	
2 returonequit	
ReturnOnEquityPct: Return On Equity % ReturnOnEquityPctTtm: Return On Equity %... ReturnOnCommonEquity: Return On Common E... ReturnOnCommonEquityTtm: Return On Common... ReturnOnAverageEquity: Return On Average... ReturnOnAverageEquityTtm: Return On Aver... TotalRestaurantsAcquired: Total Restaura... TotalRestaurantsAcquiredTtm: Total Resta...	ReturnOnEquityPct: Return On Equity % This is a measure of the return on money provided by the firms owners. This ratio represents earnings from continuing operations less preferred dividend divided by common equity and is expressed in percentage. Formula=[(ECOIN-PSDIS)/TAPC]*100 ECOIN=Earnings From Continuing Operations PSDIS=Preferred Dividend and Other Adjustments TAPC=Total Shareholders Equity
	521

Fig. 5a



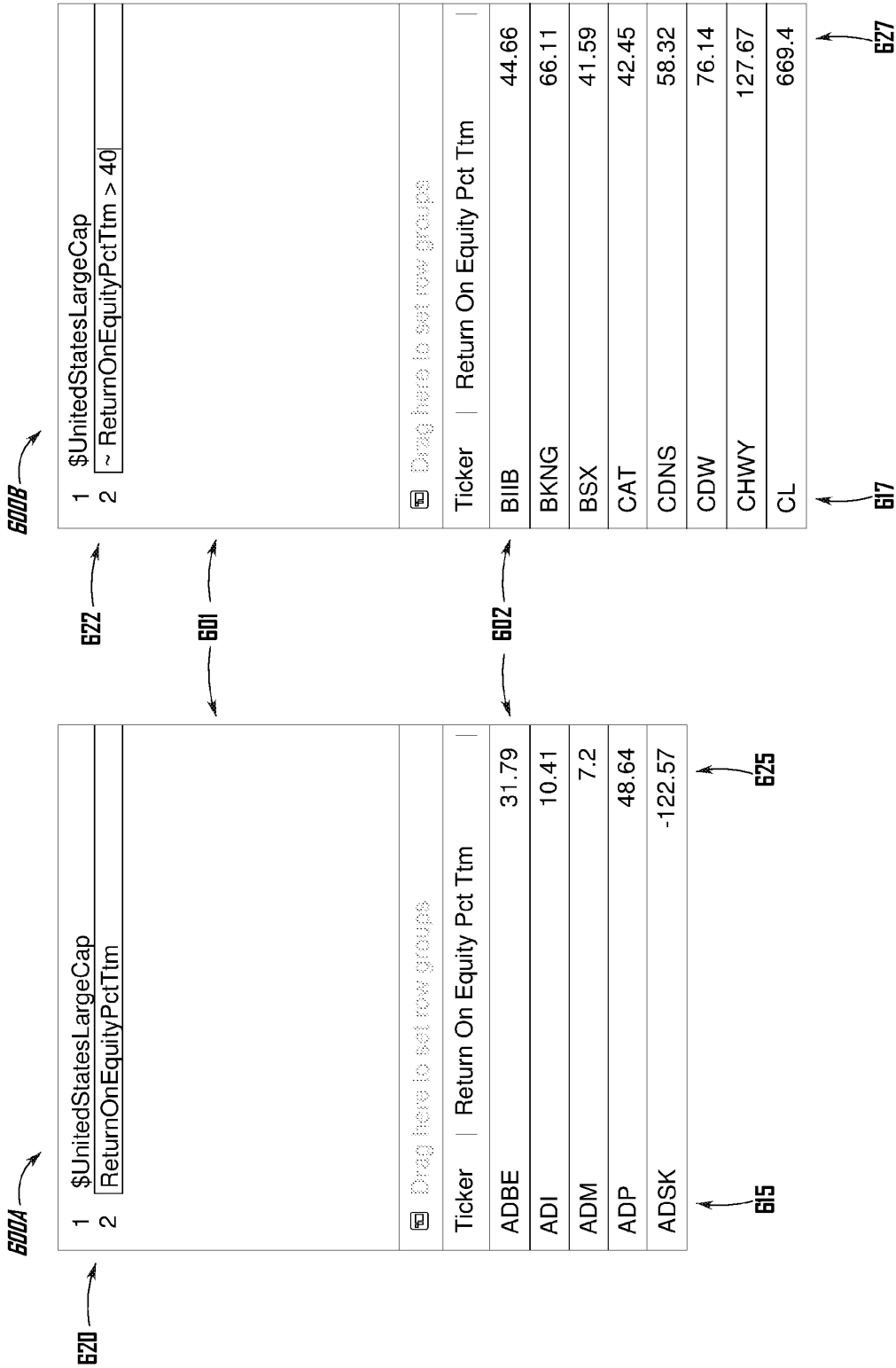


Fig. 6A

Fig. 6B

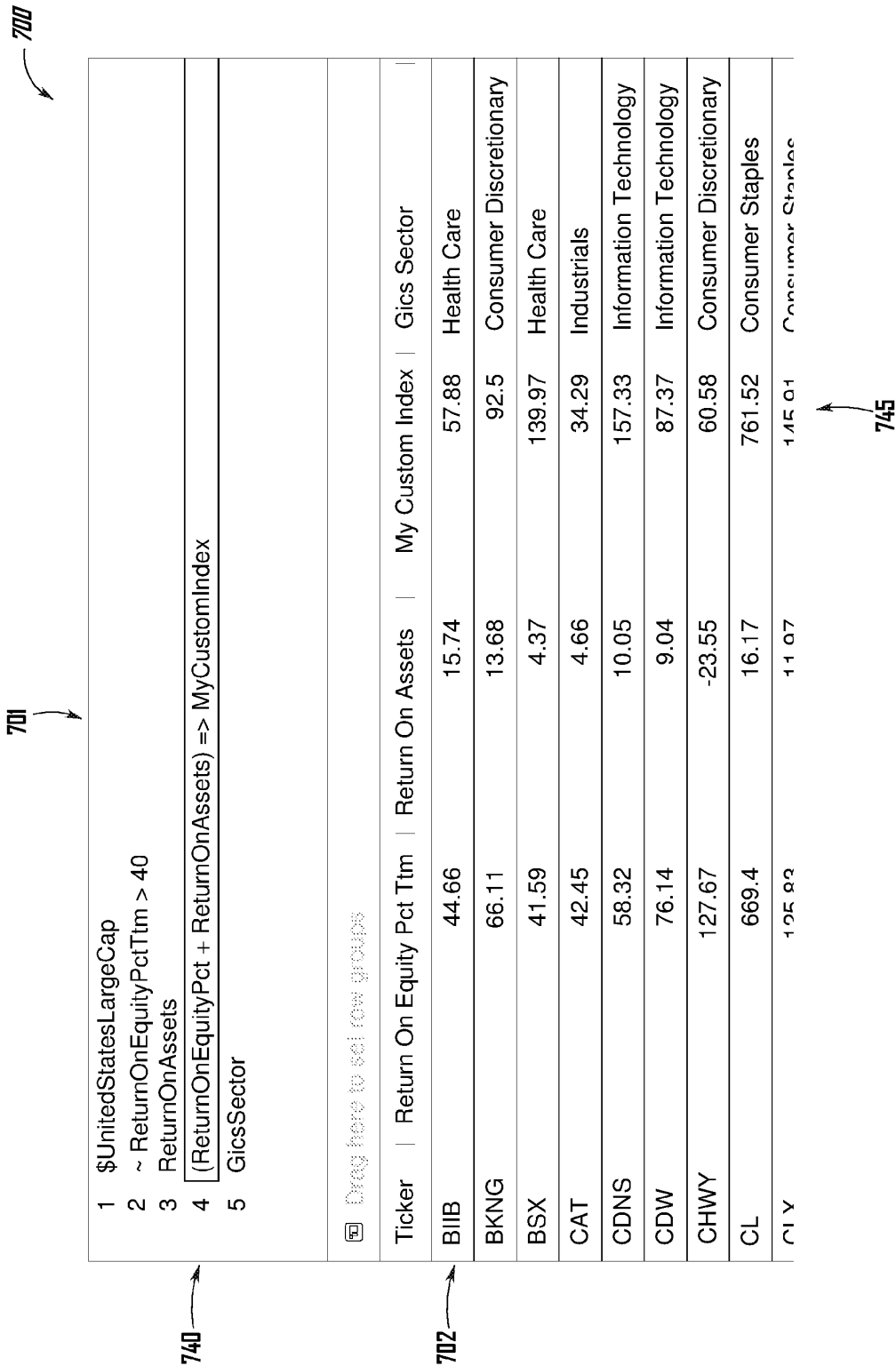


Fig. 7

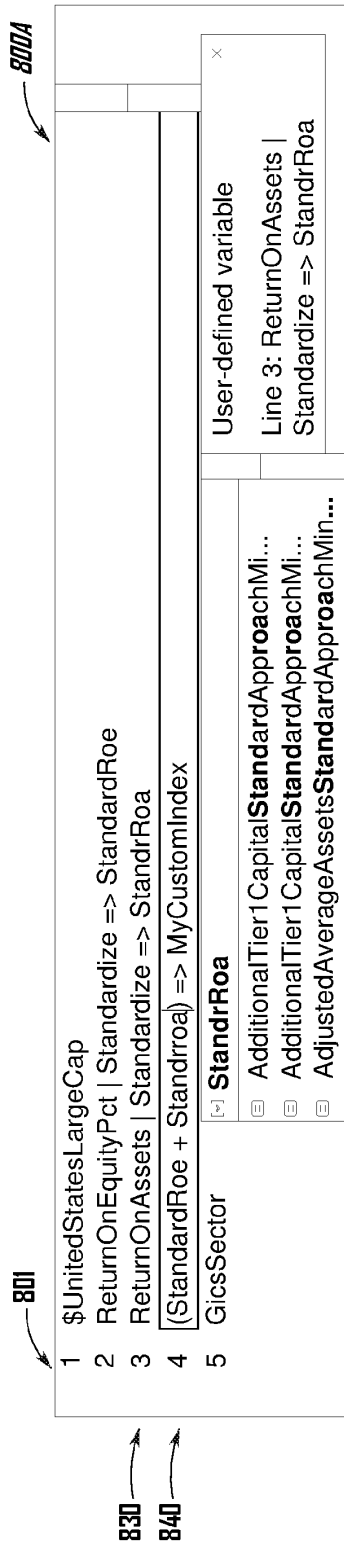


Fig. 8A

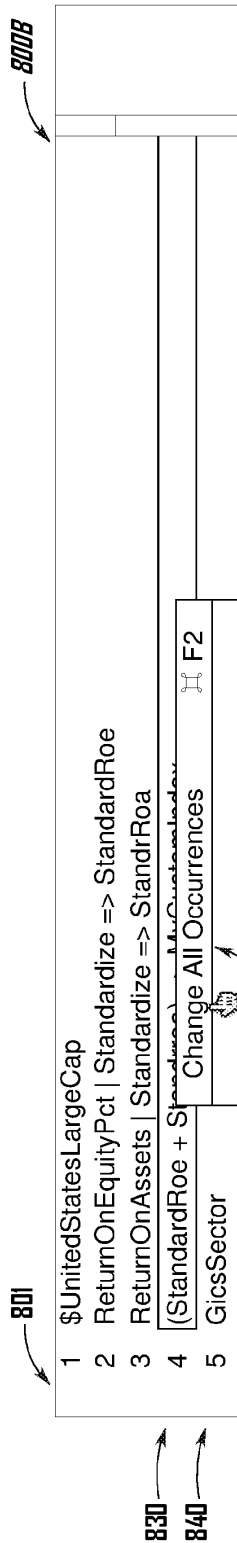


Fig. 8B

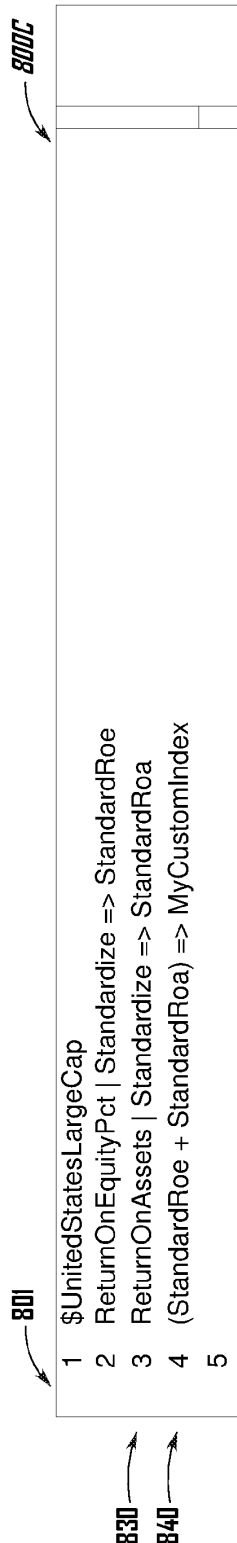


Fig. 8C

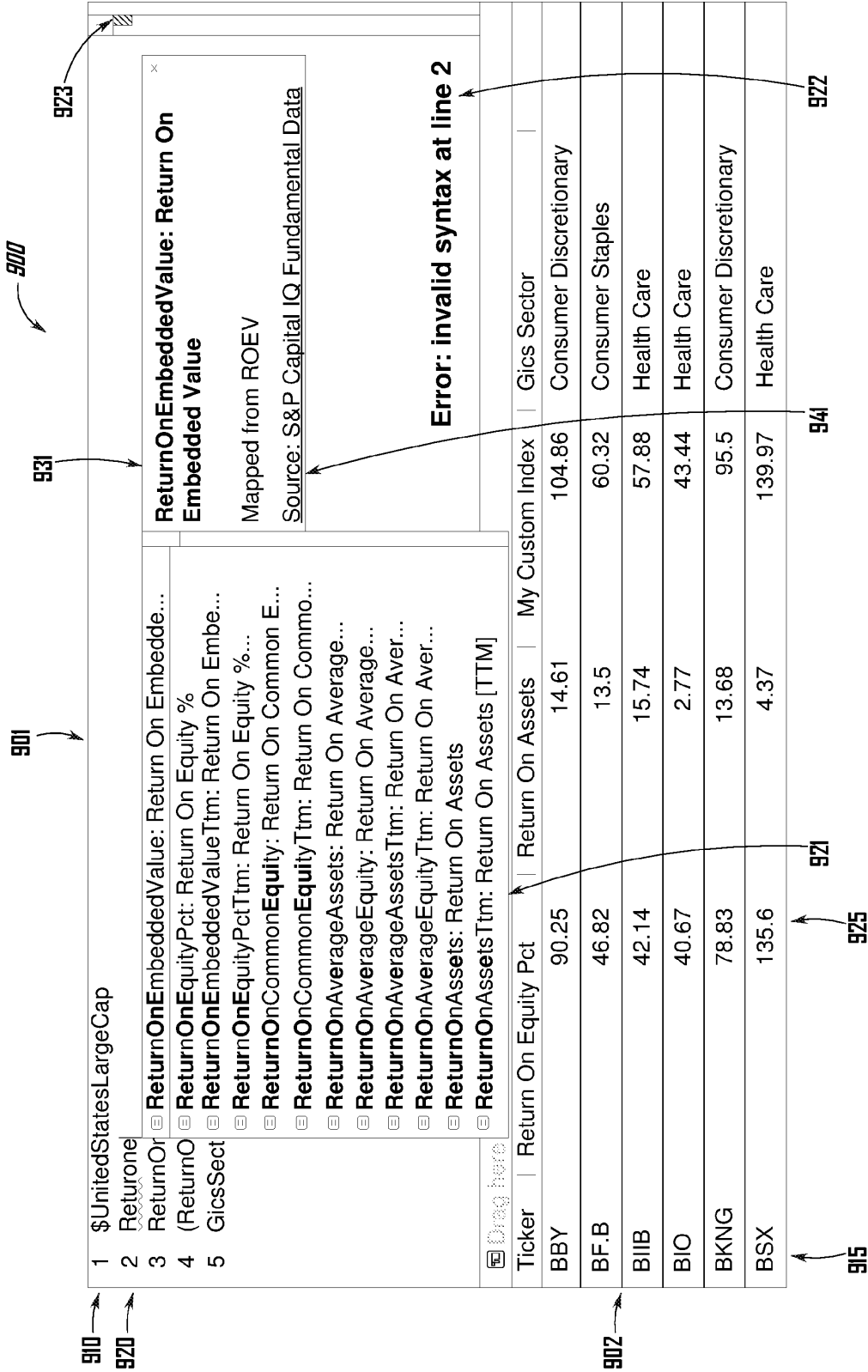


Fig. 9

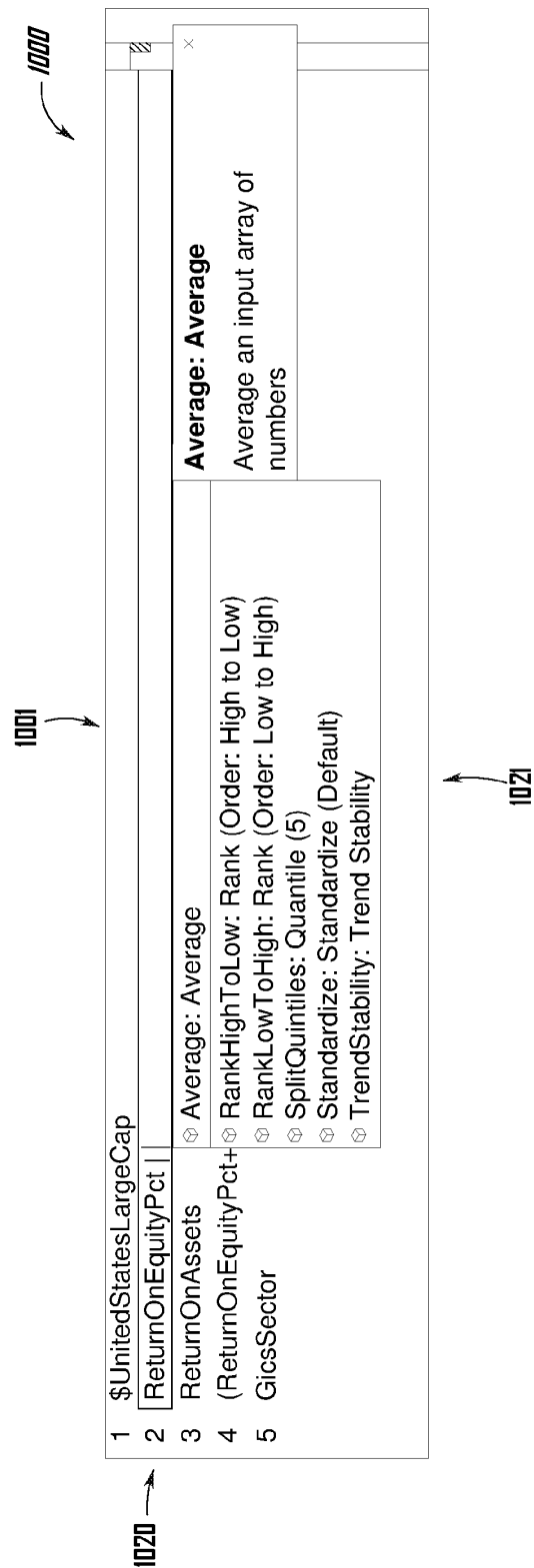


Fig. 10

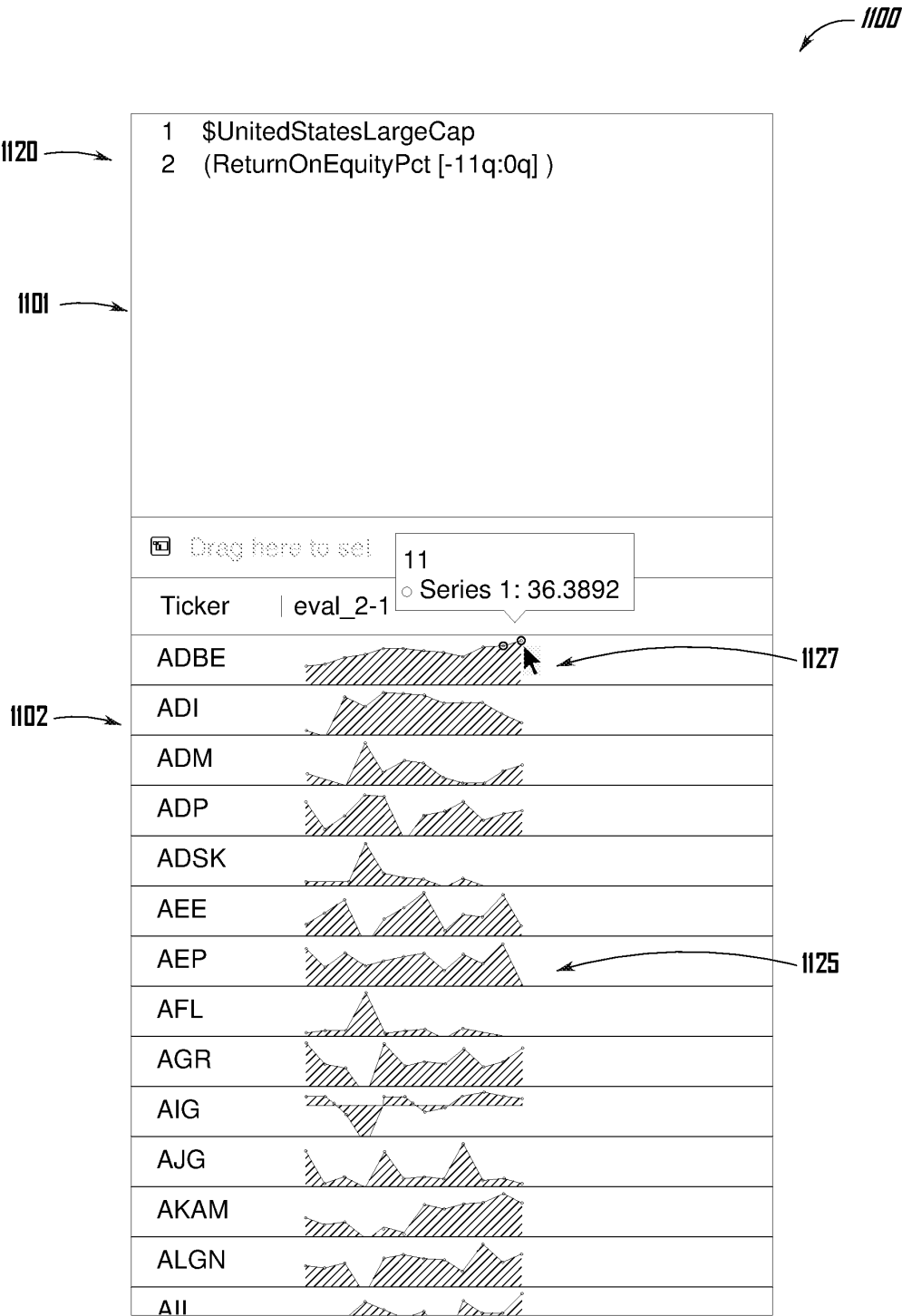


Fig. 11

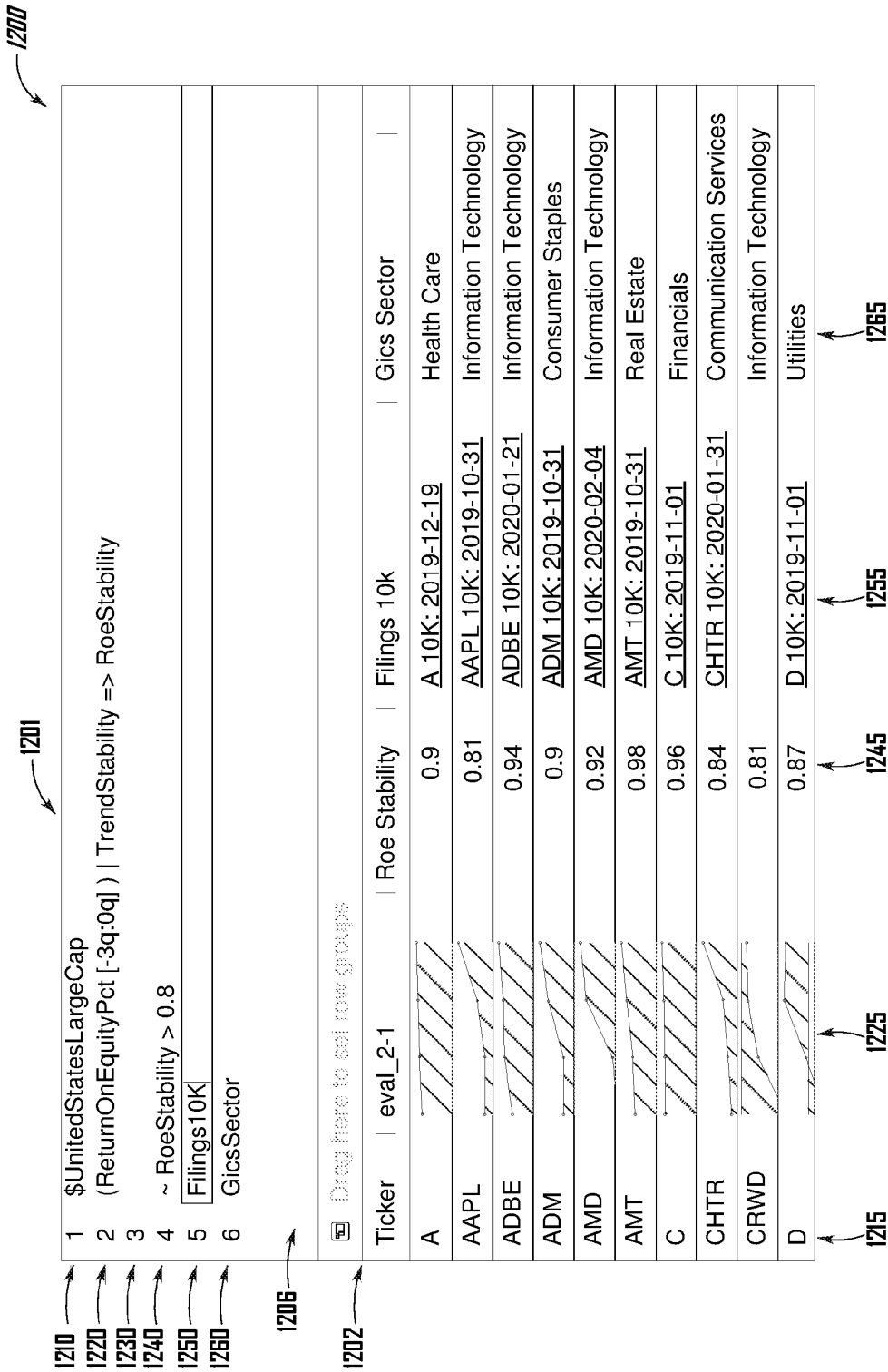
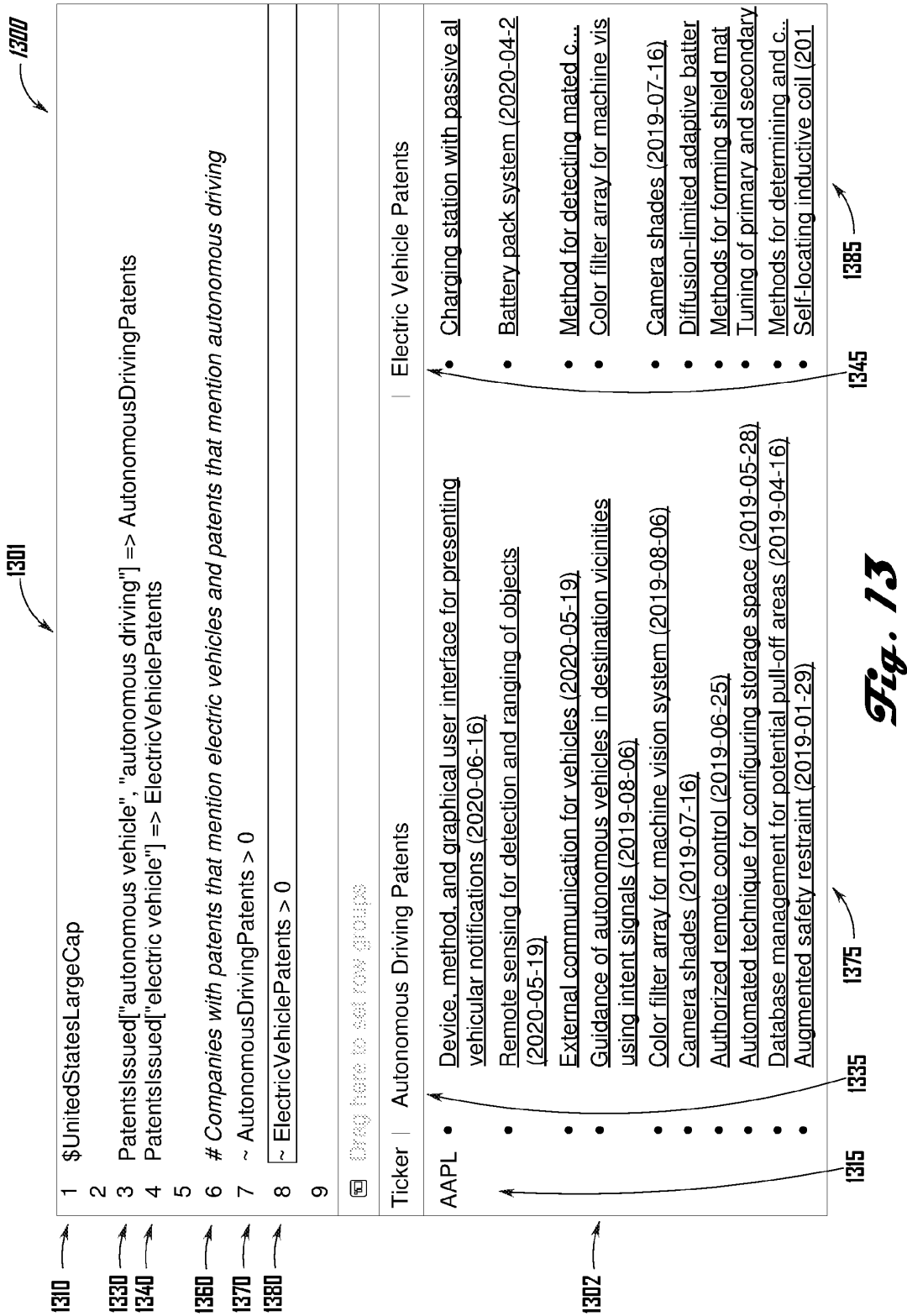


Fig. 12



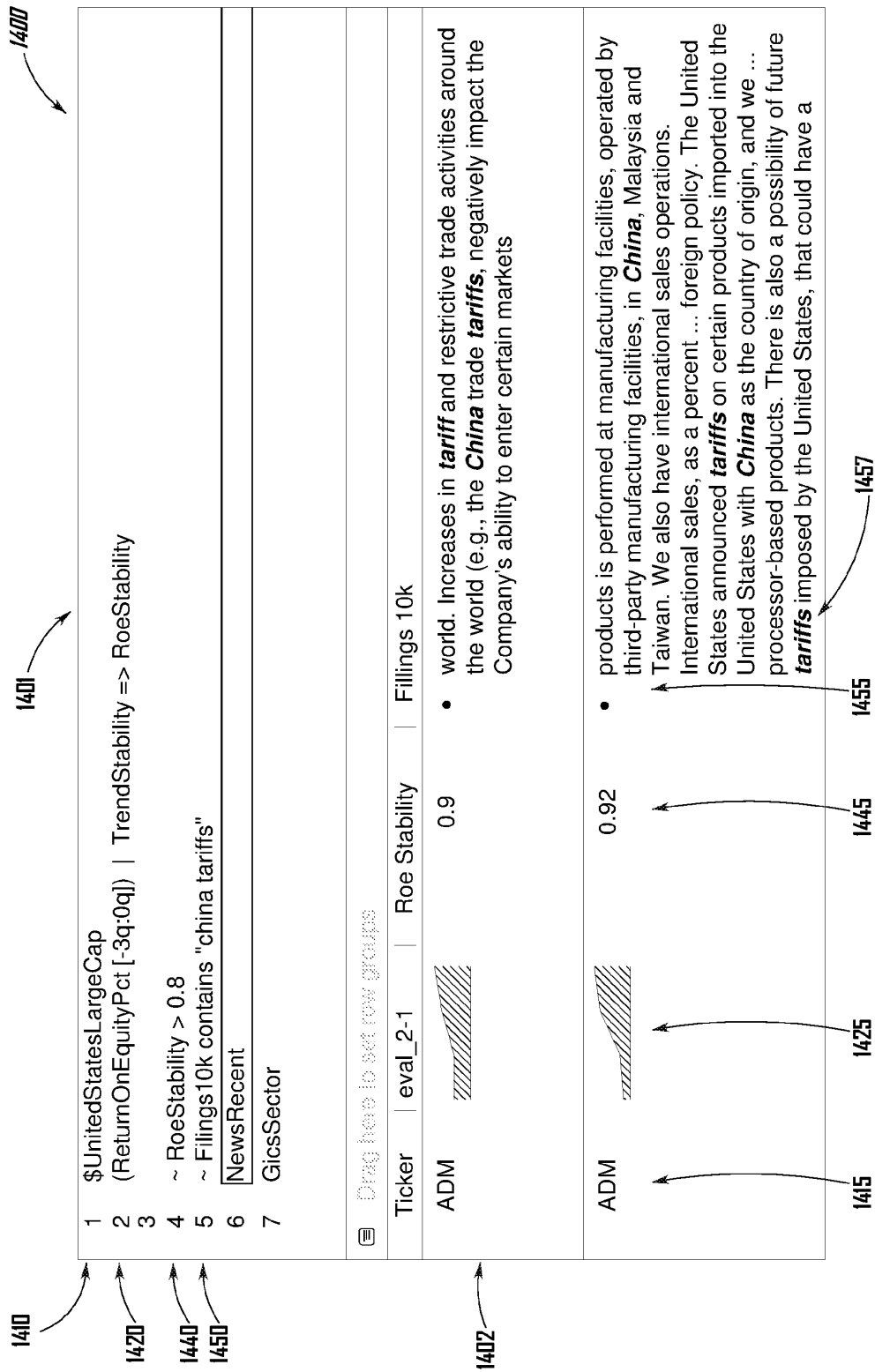
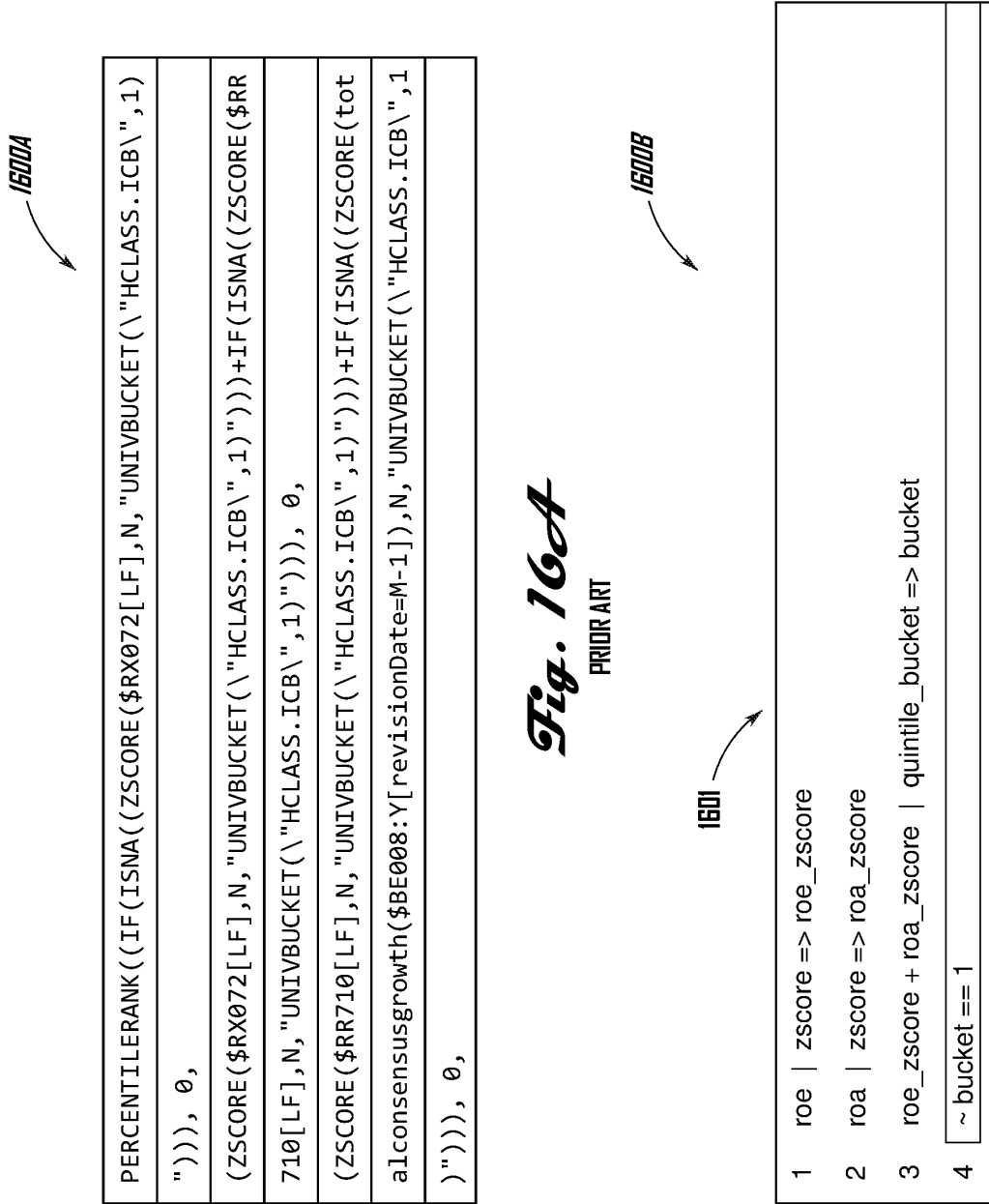
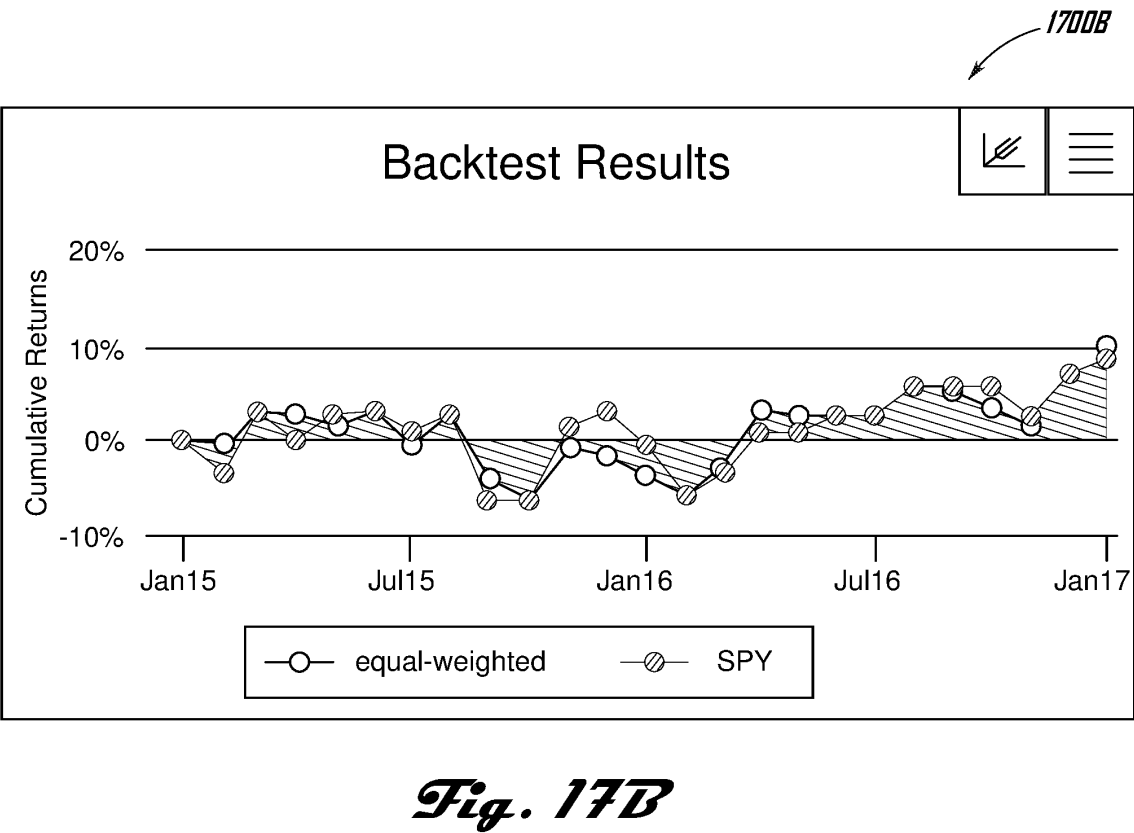
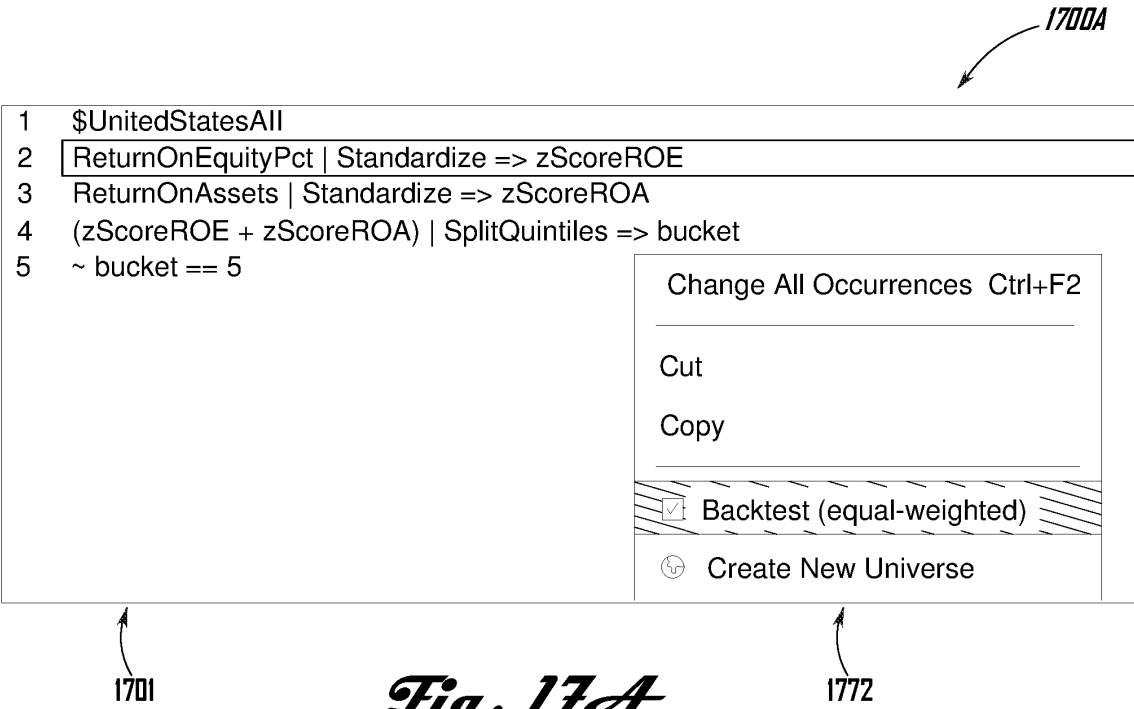


Fig. 14





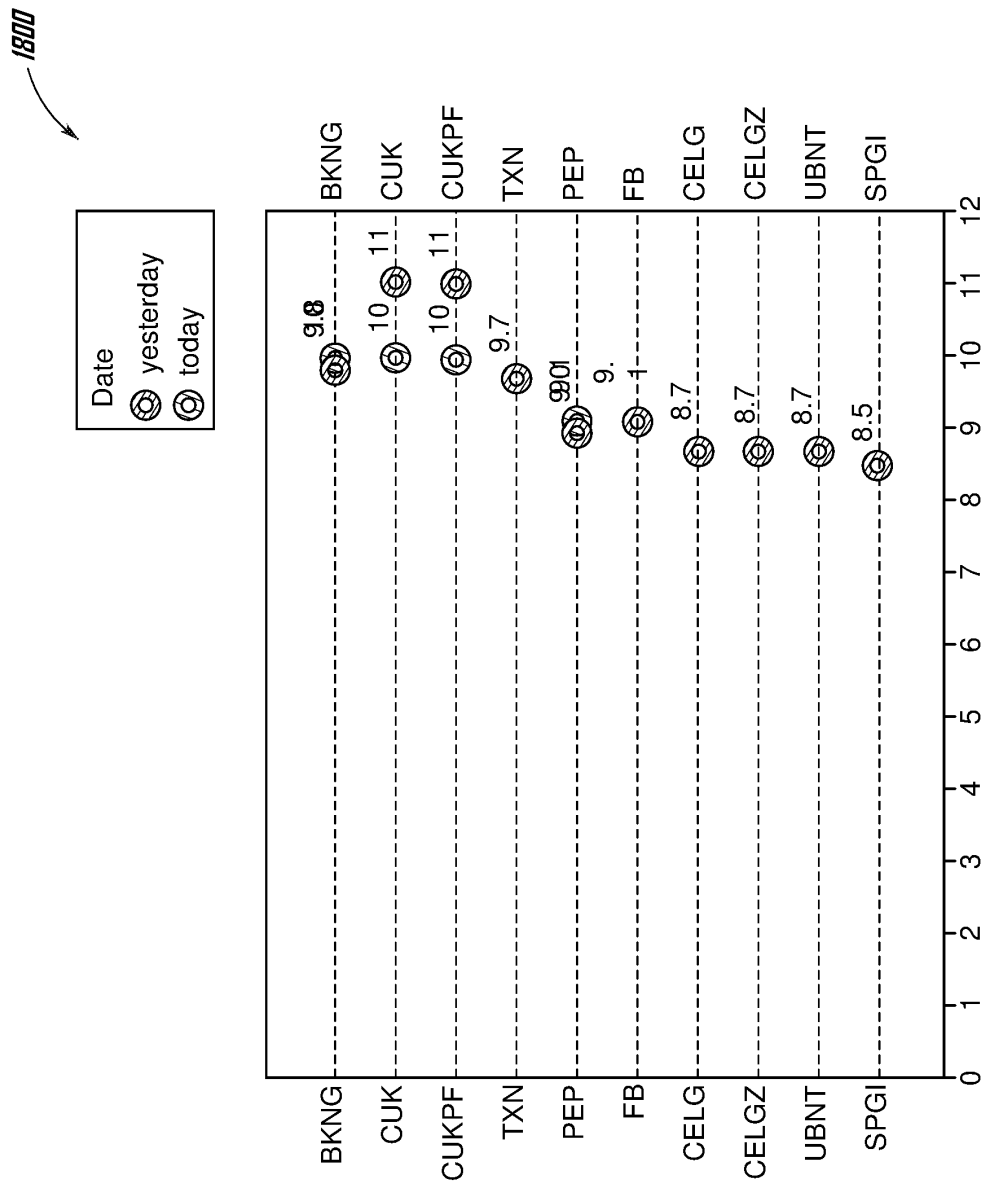
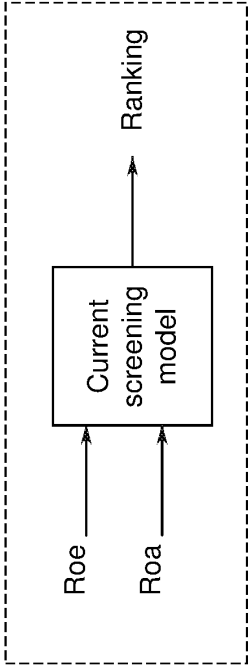


Fig. 18

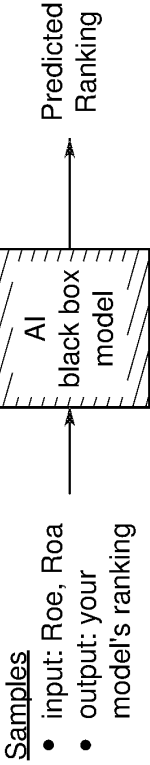
1900

AI #1: Understand biases of current model

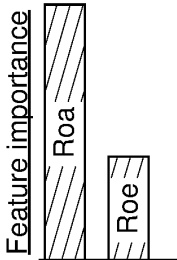


Application:
Helped a multi \$B firm learn about a bias they didn't know they had

Step 1:
Auto-train a block-box AI model that tries to replicate your model

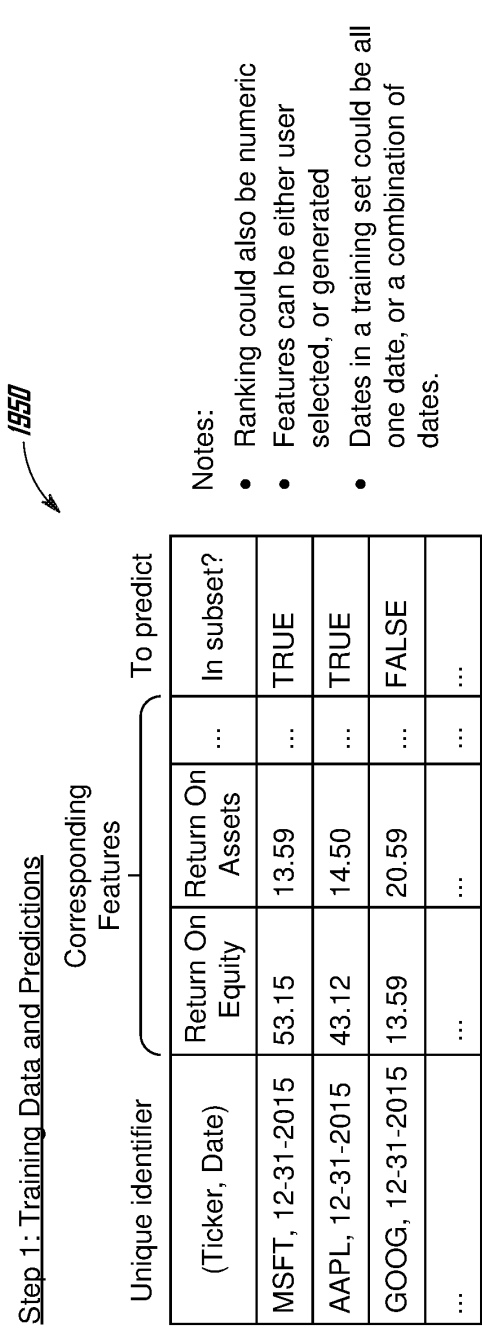


Step 2:
Introspect on AI black-box model



* Note: the AI model is overfitted. We are okay with that in this context because it is reflective, not predictive

Fig. 19A



Step1: Train AI / Machine Learning Model

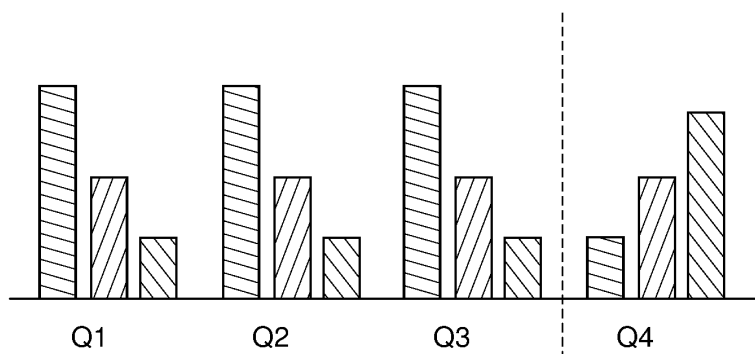
Train a model using your favorite approach (e.g., AutoML, random forest, bootstrapping...) - preferably one where you can infer relative feature weights.

Output: a predictive module - composed of one or multiple models, if you create an ensemble - that can be applied to a list of tickers and dates. In the case of multiple models, an aggregate "agreement" score can be generated (e.g., count the number of models that find a screen.) Higher scores for a company mean that the company was found in more screens.

Fig. 19B

2000

AI #2: Custom regime change detection



What does it mean?

Early indicator that factors you are depending on have shifted

action: think through what may have changed, update the model, or consider prioritizing ideas from elsewhere

Fig. 20

Quintile 1: "Best" 199901 201504

Category	Description	Risk	Net Rtn	Rank
Dividends	Dividend Growth			89%
Dividends	Yield			83%
Estimates	Earnings Surprise			96%
Estimates	Estimate Revision			97%
Growth	Cash Flow Growth			89%
Growth	Earnings Growth			77%
Quality	Reinvestment Rate			87%
Quality	Return on Equity			93%
Momentum	Short term Price Change			97%
Momentum	Long term Price Change			96%
Value	Earnings Yield			91%

AI #3: Optimal blending based on current market characteristics

What it's not:

Stamp of approval

What it is:

Companies the AI suggests you focus on based on your criteria and current market characteristics.



Top 10%

Example: if you believe ROE and ROA are important, and we predict that ROE is likely to be favored more in the future (and is sustainable over X period of time), we will highlight those companies for you.



Bottom 10%

Quintile 5: "Worst"

Category	Description	Risk	Net Rtn	Rank
Dividends	Yield			83%
Estimates	Earnings Surprise			96%
Estimates	Estimate Revision			97%
Growth	Cash Flow Growth			89%
Growth	Earnings Growth			77%
Momentum	Short term Price Change			87%
Momentum	Long term Price Change			93%
Quality	Reinvestment Rate			97%
Quality	Return on Equity			96%
Value	Earnings Yield			91%
Value	Expected Earnings Yield			83%

Fig. 21

2200

AI #4: Feature suggestions

☒ Suggested features to add

Indicator	Confidence
Roe Trend Stability	☆☆☆☆
Sentiment	☆☆

Suggested features to remove

Indicator	Confidence
Piotroski score	☆☆☆☆☆
Gross margin	☆☆☆☆

Fig. 22

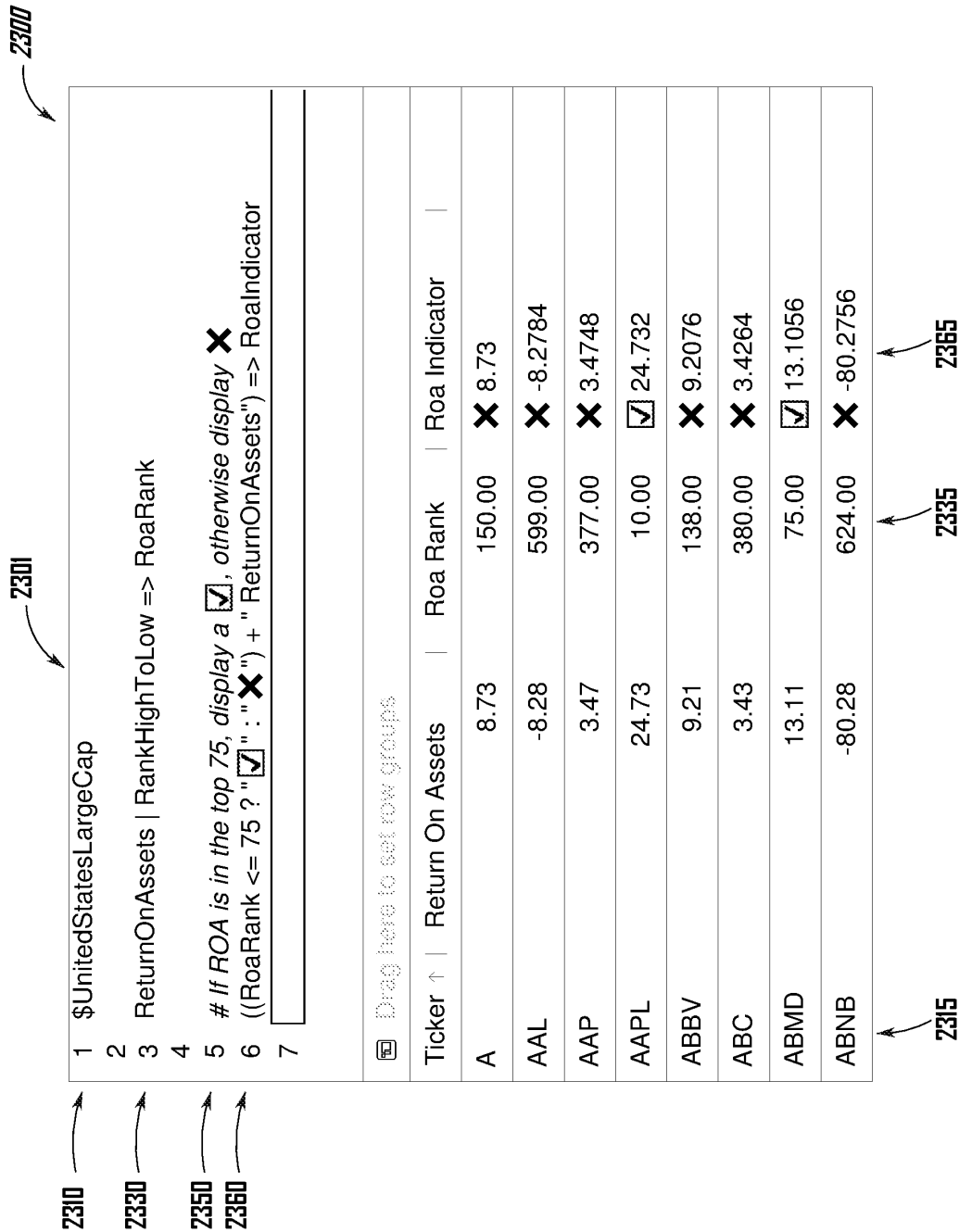


Fig. 23

Fig. 24

2510

2530

2501

2500

1	#/Model/SituationReport					
2	EpsNormalizedConsensusMean					
3	EbitConsensusMean					
4	FreeCashFlowConsensusMean					
5	RevenueConsensusMean					
6	EpsNormalizedStandardDeviation					
7						

2502	2531	2532	Company Name	Eps Normalized Consensus Mean	Ebit Consensus Mean	Free Cash Flow Consensus Mean	Revenue Consensus Mean	Eps Normalized Standard Deviation
			Bed Bath & Beyond Inc.	54	53	68	47	56
			Best Buy Co., Inc.	46	50	53	50	56
			LVMH Moët Hennessy - Louis...	51	55	54	53	51
			MGM Resorts International	56	73	62	65	46
			Microsoft Corporation	86	95	96	99	48

2515

2535

2546

2545

2580

2585

Fig. 25

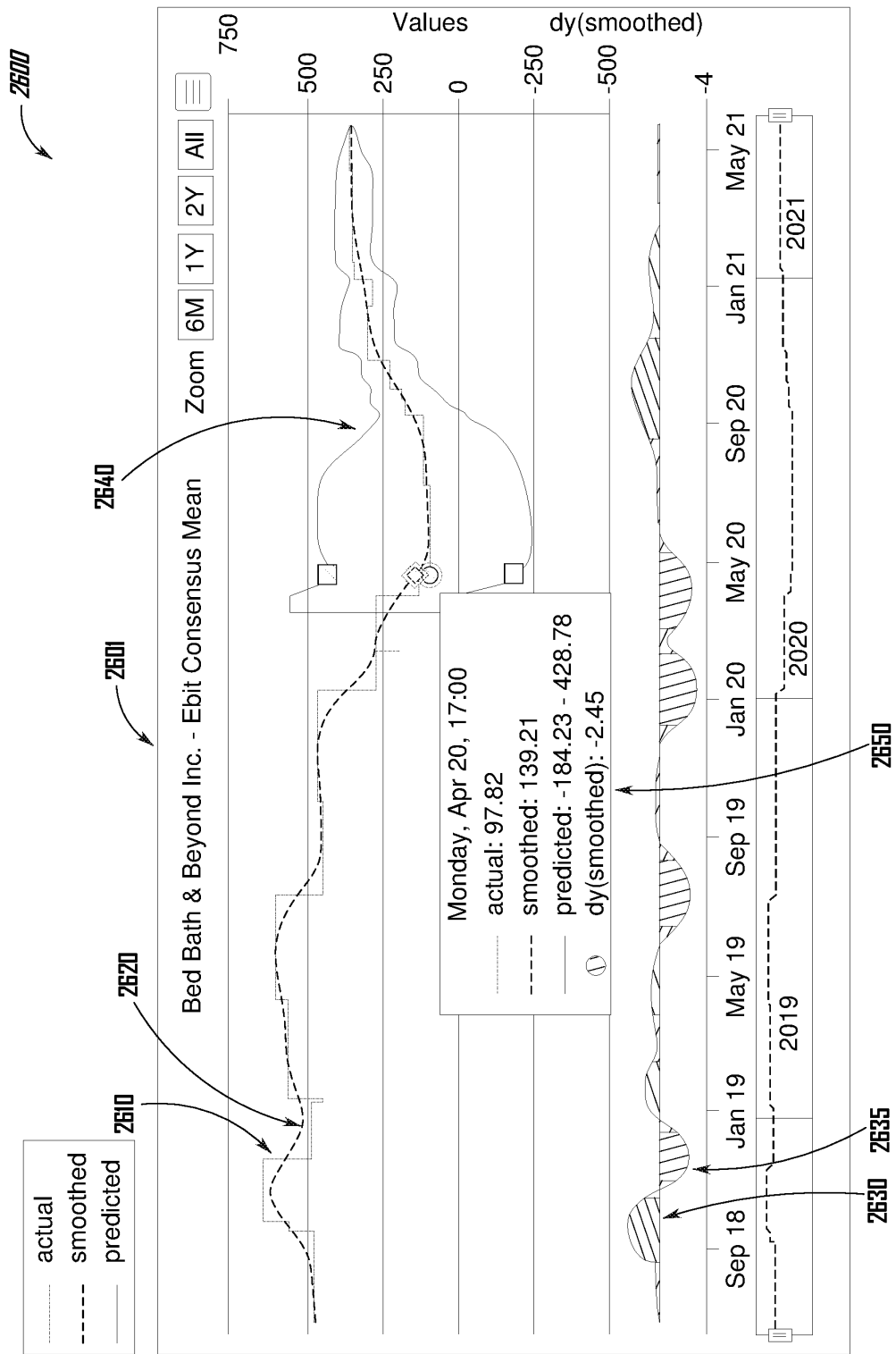


Fig. 26

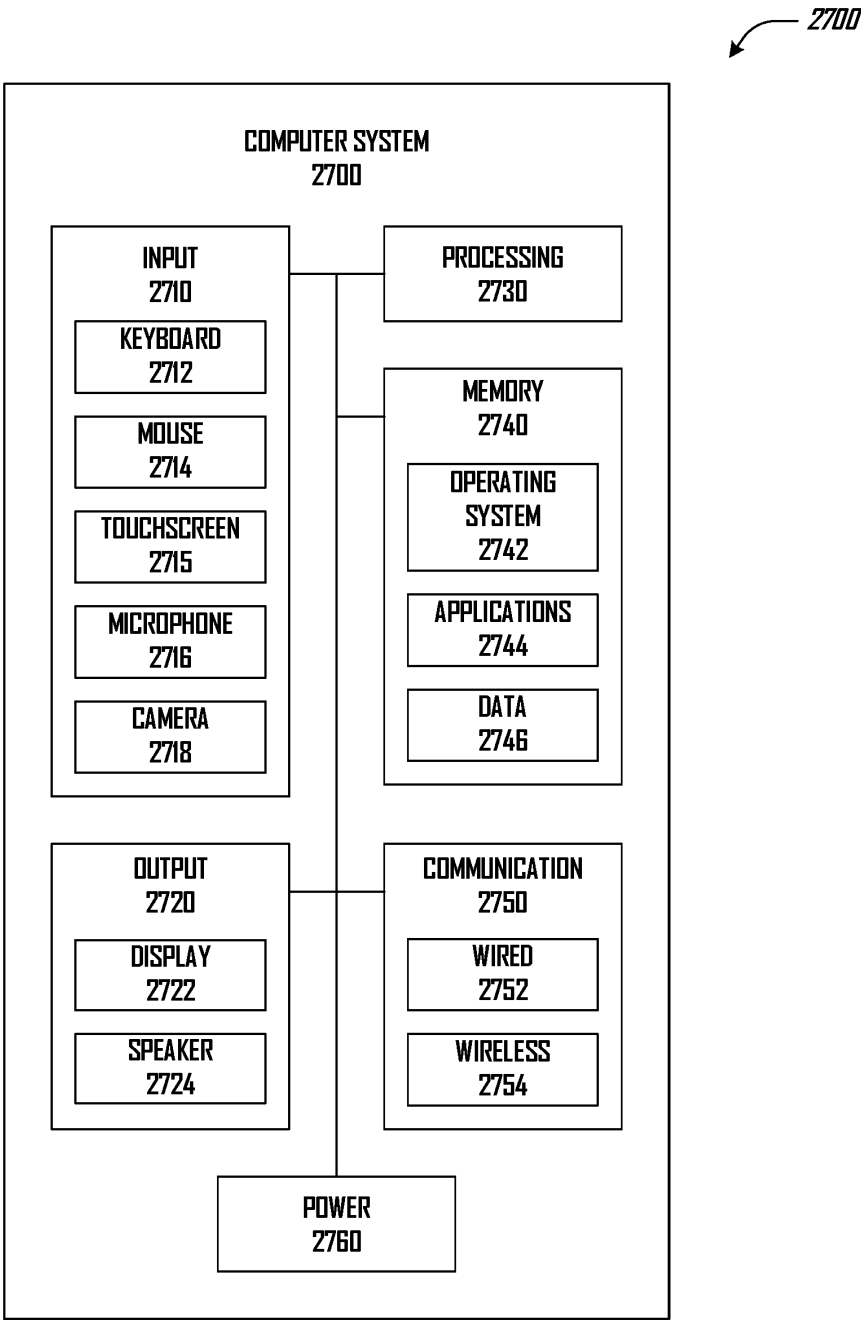


Fig. 27

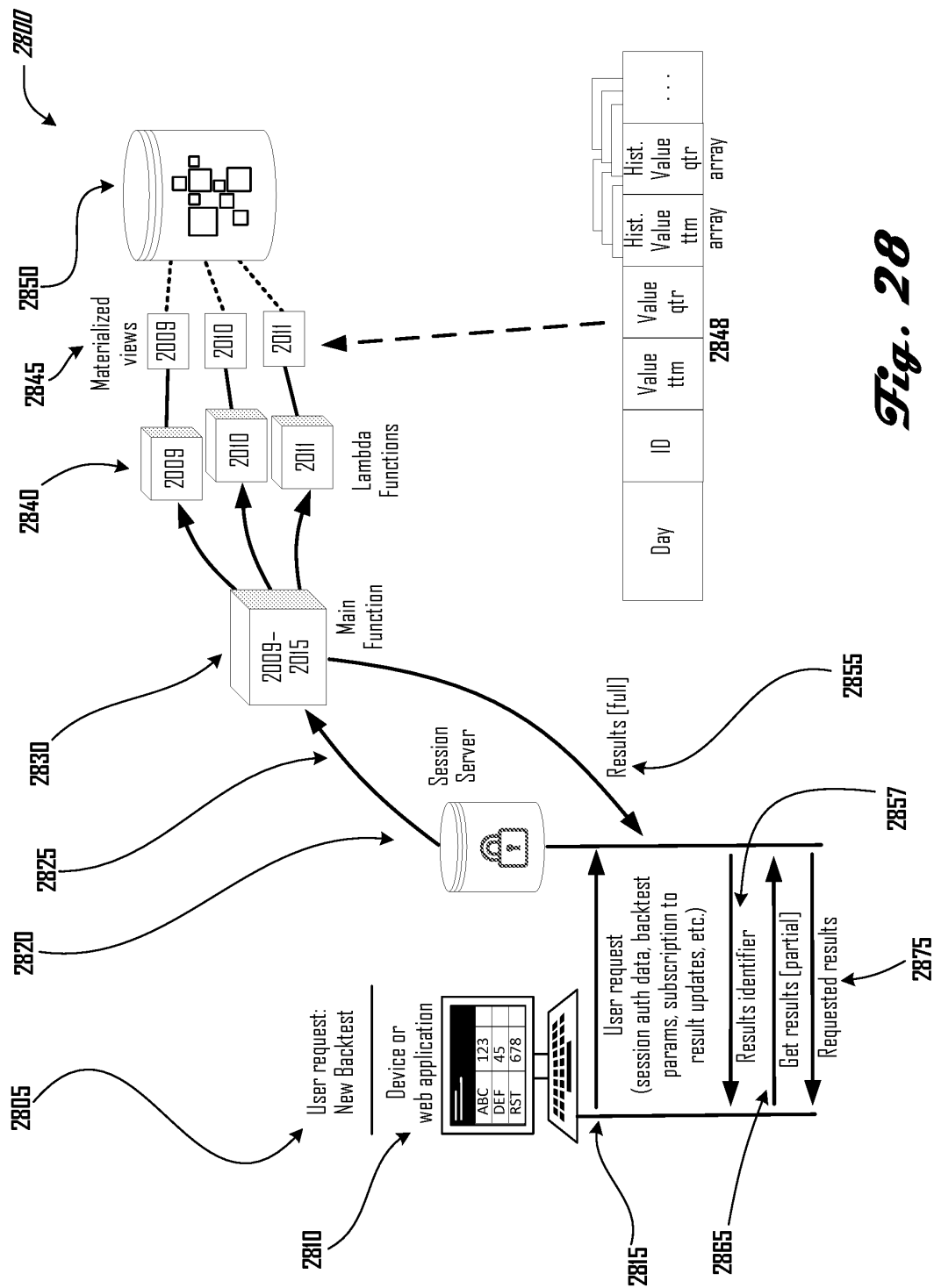


Fig. 28

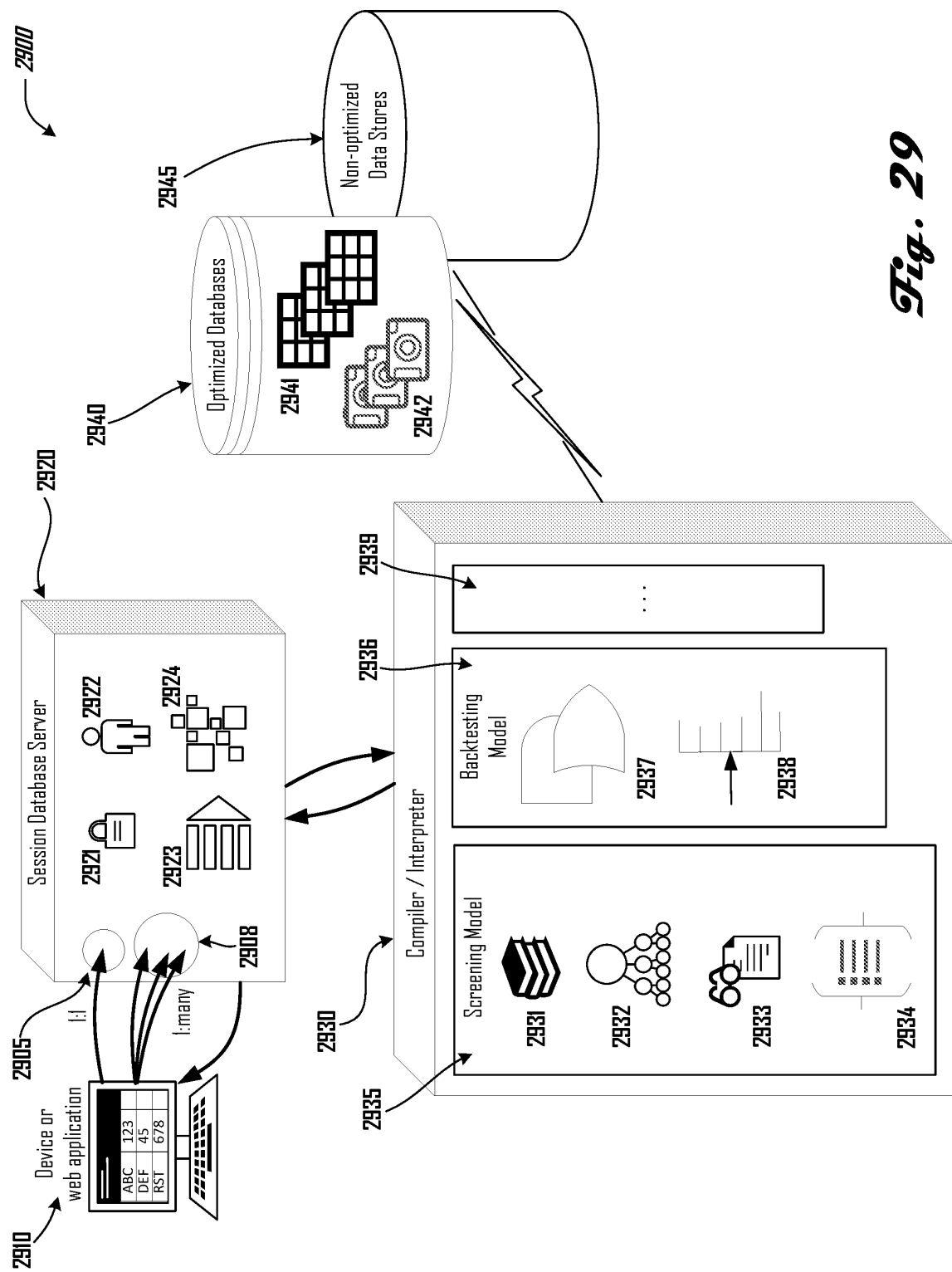


Fig. 29