the problem that the existing financial market software on the mobile terminals can only display the price trend charts and is inconvenient in price trend analysis of the price trend charts.

[6] In view of the technical problem above, embodiments of the present disclosure provide the following technical solutions.

[7] Implementations of the disclosure provide a method for reference diagram editing for a chart, which is performed on a mobile terminal. The method includes: detecting, during display of the chart, whether a chart operation object is selected; switching the chart to an editable state in response to detecting that the chart operation object is selected; detecting preset edit-touch events in a control region of an edit page corresponding to the chart after switching the chart to the editable state, the edit page including the control region and the chart, and the control region coinciding with a region where a main chart of the chart is located; and performing a reference diagram editing operation on the main chart of the chart according to the edit-touch events detected in the control region of the edit page, to edit a reference diagram on the main chart.

[8] Implementations of the disclosure further provide a device for reference diagram editing for a chart. The device includes memory, a processor and a computer program stored on the memory and executable on the processor. The computer program, when executed by the processor, causes the processor to perform steps of the method for reference diagram editing for the chart as described above.

[9] Implementations of the disclosure provide a computer-readable storage medium having a program for reference diagram editing for a chart stored thereon, and the program, when executed by a processor, implements steps of the method for reference diagram editing for the chart as described above.

[10] The implementations of the present disclosure have the following beneficial effects. According to the implementations of this disclosure, after a chart operation object is selected, a reference diagram of the main chart of the chart in the presentation can be edited in the control region of the edit page by means of touch operation. With the implementations of this disclosure, not only the chart can be displayed, and while displaying the chart, the reference diagram of the main chart of the chart can be also edited by means of the touch operation, so that the user can analyze the price trend of the main chart according to the reference diagram edited on the main chart.

as a center of the circle and a distance between the first anchor and the second anchor as a radius. Alternatively, a circle is created by using the first anchor as a point on the circle and a distance between the first anchor and the second anchor as a diameter of the circle.

[185] After an anchor of the anchors is switched to a selected state, the anchor can be dragged to adjust the diameter of the circle.

[186] FIG. 23 is a schematic diagram of editing a three-wave line according to an implementation of the disclosure.

[187] The three-wave line corresponds to four anchors in total. That is, it is necessary to create four anchors in the control region of the edit page. In the control region, a first target position on the main chart is touched and clicked once, and a first anchor is created at the first target position when the finger is lifted. A second target position on the main chart is touch and click once (i.e., a second time), and when the finger is lifted, a second anchor is created at the second target position. A first-wave line segment is created by connecting the first anchor and the second anchor. A third target position on the main chart is touched and clicked once (i.e., a third time), and a third anchor is created at the third target position when the finger is lifted. A second-wave line segment is created by connecting the second anchor and the third anchor. A fourth target position on the main chart is touched and clicked once (i.e., a fourth time), and a fourth anchor is crated at the fourth target position when the finger is lifted. A fourth-wave line segment is created by connecting the third anchor and the fourth anchor. In this way, the creation of the three-wave line is completed.

[188] After an anchor of the anchors is switched to a selected state, the anchor can be dragged to adjust the lengths and angles of the line segments connected to the anchor.

[189] The reference diagram created on the main chart can be used to analyze the shape of the main chart, so as to determine the current situation and subsequent trend of the main chart. For example, the straight line can be used as a trend line to predict a future price trend of the stock. One end of the trend line is connected to a highest stock price point and the other end of the trend line is connected to a lowest stock price point within a time period. The angle of the trend line can reflect a rising or falling trajectory of the stock price. For example, at the bottom of the stock market, the energy of short positions is gradually weakening, but the energy advantage of long positions is slowly revealed rather than suddenly increased, which may cause an arc bottom to appear in the K-line chart. In this case, a circular or elliptical reference diagram

What is claimed is:

1. A method for reference diagram editing for a chart, the method being performed on a mobile terminal and comprising, during display of the chart:

detecting whether a chart operation object is selected;

switching the chart to an editable state in response to detecting that the chart operation object is selected;

detecting preset edit-touch events in a control region of an edit page corresponding to the chart after switching the chart to the editable state, wherein the edit page comprises the control region and the chart, and the control region coincides with a region where a main chart of the chart is located, wherein a plurality of drawing line types are preset in the edit page and are classified into multi-grade types, wherein the multi-grade types comprise a first grade type as a parent type and a second grade type as a child type of the first grade type, wherein the first grade type comprises a polygon type, and the second grade type comprises triangle, rectangle, parallelogram, circle, and ellipse; and

performing a reference diagram editing operation on the main chart of the chart according to the edit-touch events detected in the control region of the edit page to edit a reference diagram on the main chart;

the method further comprising, subsequent to said switching the chart to the editable state and prior to said detecting the edit-touch events in the control region of the edit page:

detecting in the edit page whether a preset drawing line type in the plurality of drawing line types is selected; and

determining, in response to detecting that a preset drawing line type in the plurality of drawing line types is selected, a total anchor number corresponding to the drawing line type selected.

2. The method of claim 1, wherein said performing the reference diagram editing operation on the main chart of the chart according to the edit-touch events detected in the control region of the edit page comprises:

creating at least one anchor on the main chart of the chart according to the edit-touch events detected in the control region of the edit page; and

drawing on the main chart, based on the at least one anchor created, a shape for creating

the reference diagram, wherein creating of the reference diagram is completed when a number of anchors created reaches the total anchor number.

3. The method of claim 2, wherein the edit-touch events comprise a touch-down event and a touch-up event, and said creating the at least one anchor on the main chart of the chart according to the edit-touch events detected in the control region of the edit page comprises:

detecting the touch-up event in the control region of the edit page in response to detecting the touch-down event in the control region of the edit page; and

creating an anchor according to a position where the touch-up event occurs, in response to detecting the touch-up event in the control region of the edit page.

4. The method of claim 3, wherein the edit-touch events further comprise a touch-move event, and the method further comprises, during the creating of the at least one anchor on the main chart of the chart according to the edit-touch events detected in the control region of the edit page:

enlarging, by a first preset percentage, an image within a first preset range of a position where the touch-down event occurs and displaying the enlarged image, in response detecting the touch-down event in the control region of the edit page and when the touch-down event lasts for a first preset duration; and/or

enlarging, by a second preset percentage, an image within a second preset range of a position where the touch-move event occurs and displaying the enlarged image, in response to detecting the touch-move event in the control region of the edit page, and

wherein said creating the anchor according to the position where the touch-up event occurs comprises:

creating the anchor at the position where the touch-up event occurs; or

creating the anchor at a first preset point on the main chart in response to detecting that a distance between the position where the touch-up event occurs and the first preset point is less than a first preset distance threshold.

5. The method of claim 2, further comprising, during the creating of the at least one anchor on the main chart of the chart according to the edit-touch events detected in the control

region of the edit page:

displaying anchor-creation prompt information when the number of the anchors created is less than the total anchor number, wherein the anchor-creation prompt information comprises at least one of: the selected drawing line type, the total anchor number, or the number of the anchors created; and/or

displaying creation-completion prompt information when the number of the anchors created is equal to the total anchor number.

6. The method of claim 1, wherein the edit-touch events comprise a touch-down event, a touch-move event, and a touch-up event, and said performing the reference diagram editing operation on the main chart of the chart according to the edit-touch events detected in the control region of the edit page comprises:

in response to detecting in the control region of the edit page that the touch-down event occurs on the created reference diagram, switching the reference diagram to a selected state; and

subsequent to said switching the created reference diagram to the selected state, adjusting a position of the created reference diagram according to the touch-move event in response to detecting that the touch-move event occurs on the created reference diagram, and during the adjusting of the position of the created reference diagram according to the touch-move event, fixing the position of the created reference diagram according to the touch-up event in response to detecting that the touch-up event occurs on the created reference diagram; and/or

subsequent to said switching the reference diagram to the selected state, modifying an attribute of the created reference diagram according to a preset attribute modify option in response to detecting that the preset attribute modify option is selected; and/or

subsequent to said switching the reference diagram to the selected state, deleting the created reference diagram in response to detecting that a preset graphic delete option is selected.

7. The method of claim 1, wherein the edit-touch events comprise a touch-down event, a touch-move event, and a touch-up event, and said performing the reference diagram editing operation on the main chart of the chart according to the edit-touch events detected in the control region of the edit page comprises:

in response to detecting that the touch-down event occurs on an anchor of a created

reference diagram, switching the anchor to a selected state;

subsequent to said switching the anchor to the selected state, in response to detecting that the touch-move event occurs on the anchor, adjusting a position of the anchor according to the touch-move event and adjusting a shape of the created reference diagram where the anchor is located according to the adjusted position of the anchor; and

in response to detecting the touch-up event on the anchor during the adjusting of the position of the anchor according to the touch-move event, fixing the adjusted position of the anchor according to the touch-up event and fixing the shape of the created reference diagram where the anchor is located according to the fixed position of the anchor of the created reference diagram, wherein said fixing the adjusted position of the anchor according to the touch-up event comprises:

fixing the anchor at a position where the touch-up event occurs; or

moving the anchor to a second preset point on the main chart and fixing the anchor at the second preset point in response to detecting that a distance between the position where the touch-up event occurs and the second preset point is less than a second preset distance threshold.

8. The method of claim 1, wherein the edit-touch events comprise a touch-down event and a touch-move event, and the method further comprises, during the performing of the reference diagram editing operation on the main chart of the chart:

in response to detecting that the touch-down event occurs on a line or an anchor of a created reference diagram and lasts for a second preset duration, switching the created reference diagram or the anchor where the touch-down event occurs to a selected state, and enlarging, by a third preset percentage, an image within a third preset range of a position where the touch-down event occurs and displaying the enlarged image; and/or

in response to detecting that the touch-move event occurs on a line of the created reference diagram or on an anchor of the created reference diagram, enlarging, by a fourth preset percentage, an image within a fourth preset range of a position where the touch-move event occurs and displaying the enlarged image; and/or

in response to detecting that the touch-down event occurs on a line of the created reference diagram or on an anchor of the created reference diagram, switching the created reference diagram or the anchor to the selected state, and subsequent to said switching the

created reference diagram or the anchor to the selected state, displaying, in a preset display manner, the created reference diagram or the anchor in the selected state.

9. A device for reference diagram editing for a chart, the device comprising:

a memory;

a processor; and

a computer program stored on the memory and executable on the processor,

wherein the computer program, when executed by the processor, causes the processor to implement steps of the method for reference diagram editing for the chart according to any one of claims 1 to 8.

10. A computer-readable storage medium having a program for reference diagram editing for a chart stored thereon, wherein the program, when executed by a processor, implements steps of the method for reference diagram editing for the chart according to any one of claims 1 to 8.