

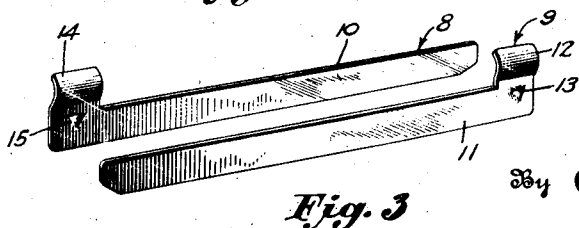
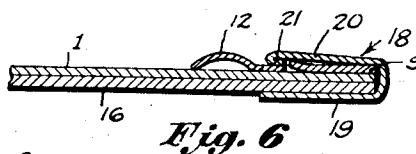
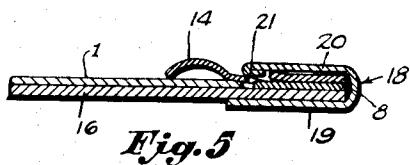
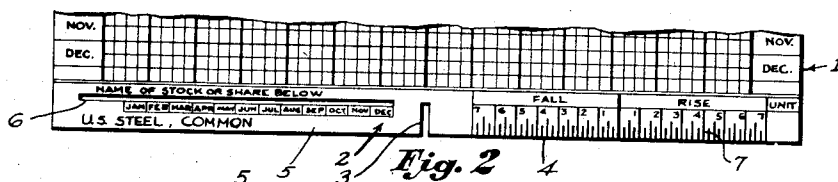
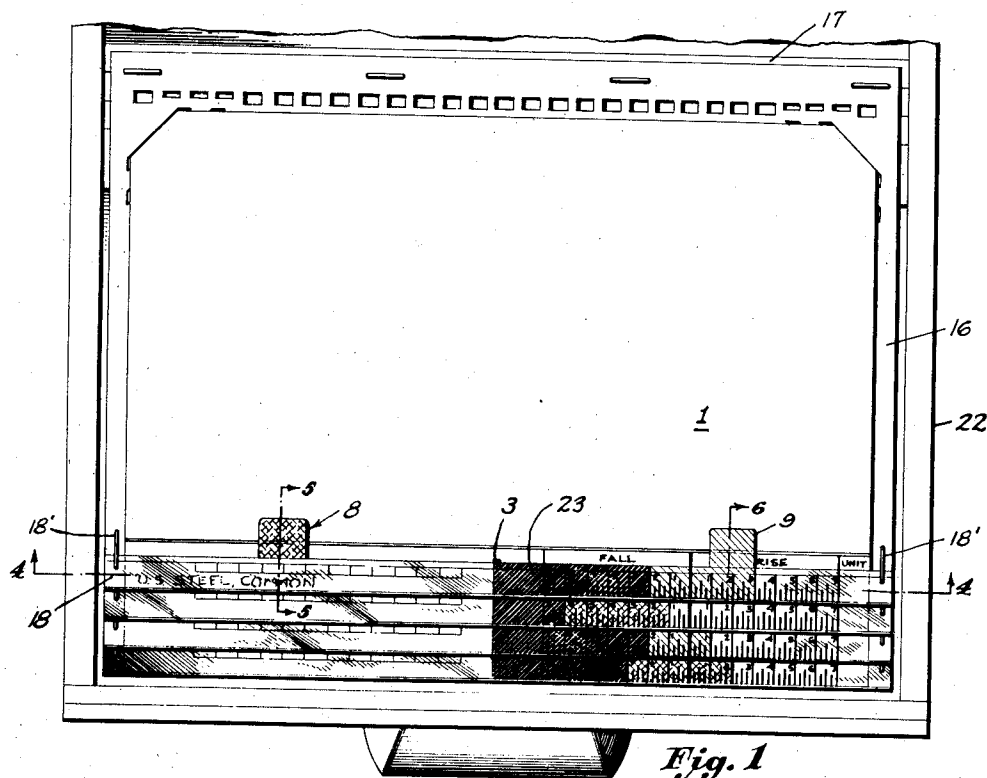
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INDEX AND SIGNAL

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INDEX AND SIGNAL

Application filed March 9, 1931, Serial No. 521,345, and in Germany May 9, 1930.

This invention relates to a graphing or signalling device particularly adapted for use with index equipment of the visible type.

An object of the present invention resides in providing a device attachable to marginal portions of a card or like index device which will enable the visual signalling of two or more conditions present thereon. This is accomplished by mounting a pair of superimposed dividing members on the marginal portion of an index device. These members are of different colors and superimposed portions blend to form a third or secondary color. By proper manipulation of these signals, which are independently movable, it is possible to obtain a varying exposed range for the secondary color area and a selective extent for either of the other colors. This color charting or signalling portion is mounted directly over a scale portion of a card and cooperates with such scale portion to indicate a plurality of conditions.

It is a further object of the invention to provide an easily assembled structure for the signalling device which may be applied to any of the well-known types of visible equipment such as those utilizing retaining sheaths. The specific structure of the signal strip and cooperating card has been specially designed with the object of obtaining proper and economical production.

In the drawing:

Fig. 1 is a plan view of a portion of an index tray containing a plurality of card holders in offset overlapping relation, each having a visible margin provided with the signalling device of the present invention.

Fig. 2 is a plan view of the lower marginal portion of a special record card.

Fig. 3 is a perspective view showing the two signal strips in disassembled relation.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1 through one of the record cards and its card holder.

Fig. 5 is a sectional view taken on line 5—5 of Fig. 1 through the same card and holder as in Fig. 4.

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 1 through the same card and holder as Fig. 4.

The numeral 1 indicates an index card, the lower margin 2 of which is laterally slotted at 3 to divide such margin into two sections, a right-hand section 4 and a left-hand section 5. The latter section is provided with an elongated slot 6 which is spaced from and parallel to the edge of the card. This slot terminates at a spaced distance from the vertical edge of the card and a spaced distance from the lateral slot 3. The right-hand section is provided with scale markings 7 of any suitable or desired arrangement.

A pair of signal strips 8 and 9 are adjustably mounted on the marginal portions of the card 1. Both of these strips are formed of thin sheet material, preferably transparent celluloid, and are colored distinctively from each other and from the card 1. Each of the strips 8 and 9 is provided with an elongated rectangular body portion 10 and 11 respectively. At the right extremity of the strip 9 an integral lateral extension forming a handle portion 12 is provided which extends upwardly and is slightly curved for ease of handling.

Immediately below the handle 12 an outwardly extending lip 13 is formed out of the material. The left-hand end of the strip 8 is similarly provided with a handle portion 14 having a curved surface, and immediately beneath is a downwardly extending lip 15 formed out of the material of the strip.

The signal strip 8 is mounted below the section 5 and concealed thereby with a portion of the body 10 extending through the lateral slot 3 to lie in visible relation on the surface of the section 4 and with the handle portion 14 projecting through the elongated slot 6 to overlie the opposite surface of the card whereby it is accessible for lateral manipulation within the confines of the slot 6 to vary the exposed length of its body portion on the right-hand section 4. The lip 15 engages the walls of the slot 6 to prevent upward movement of the strip 8. The signal strip 9 is then mounted on the section 4 with the free end of its body 11 extending through the transverse slot 3 and superimposed on the body 10 of the signal strip 8. The handle

portion 12 of the signal 9 overlies the card 1 and is manipulated to vary the exposed length of the signal strip 8 on the right-hand section 4 independently of the signal strip 9.

5 The card 1 and signal strips 10 and 11 thus assembled, are preferably removably mounted in a usual form of a support sheet 16 with a spacing member 17 on one margin having a card holder for visible indexes and a sheath 18 on the opposite margin. The sheath 18 10 is of a transparent material, such as celluloid, folded longitudinally to form a rear leg 19 extending along the rear of the holder sheet 16 and a front leg 20 overlying the front of the margin and provided with an intumed 15 folded edge 21. This sheath is secured to the sheet by wire stitches 18' at each extremity thereof.

The card and signal assembly above described are inserted under the leg 20 which 20 resiliently engages and retains the signals and the card. During this assembly the lip 13 of the strip 9 snaps into position behind the intumed edge 21 of the sheath as shown 25 in the sectional views in Figs. 5 and 6, thus preventing the removal of such strip by a transverse movement. Each of the signal members is now mounted for movement and each, through cooperative structure on the 30 enclosing sheath and card, is guided for positive sliding movement, the body portions of the signals being retained between the fold portion of the sheath and the top wall of the slot 3 of the card, the extremity of signal 35 strip 9 carrying the handle being retained between the intumed edge 21 of the sheath and the fold portion thereof and the corresponding extremity of strip 8 being retained between the walls of slot 6 and the fold portion 40 of the sheath.

The tray 22 is of the usual form used with visible index equipment and is provided with flanges or other suitable holding structure for receiving portions of the mounting strip 45 or spacing member 17 of each support sheet for mounting the same in super-imposed stepped relation with the sheath portion 20 of each in visible relation. Any form of supporting means and spacing means for spacing the support sheets may be used, the structure shown in Fig. 1 being submitted for the 50 purposes of illustration.

In operation, the signal strips 8 and 9 under each sheath have portions lying within the 55 scale margin area on the right-hand section 4 of the card. These portions are in a visible position when viewed through the transparent sheath which encloses the margin of the card.

60 The signals being of different colors; for example as shown in Fig. 1 the signal strip 9 being of light green color and the signal strip 8 being of a light orange color; the superimposed portions of the signals will 65 visually combine colors to effect a neutral

shade of color, indicated at 23 in the heavy cross-hatched lines in Fig. 1. This neutral area in itself forms a definite visual signal from which portions of the extremities of either of the signal strips may protrude in 70 signalling cooperation. This enables the formation of a charting area of a secondary color with the option of the use of either of the primary colors therewith. The signal strip 8 is so constructed that when its handle 75 14 is moved from one end of the slot 6 to the other end, the entire range of the scale markings on section 4 is travelled by the free extremity of the body 10 thereof. The signal 9 is also movable to travel over the entire distance of the scale margin by manipulation of 80 its handle 12. The latter signal strip is limited in its movement by the contact of the sides of its handle member 12 with either the wire stitch 18' or a wall of the transverse slot 3, depending upon its direction of travel. 85

In Fig. 1, one of the many uses of this device is illustrated where the scale markings are graded from a central dividing line to indicate a rise and a fall in a stock price. The 90 orange signal strip 8 is utilized to indicate the price of the stock at the beginning of a month and the green signal strip is used to indicate the current price of the stock. The heavy dividing scale line indicates the normal condition of the stock, or if desired, the 95 purchase price. Thus, in the topmost index element in Fig. 1, the green signal strip is set at three in the rise column, indicating the current price to be three points above the purchase price, i. e. the dividing line. 100

The orange signal is set at a two point fall in the "fall" column indicating that the price of the stock at the beginning of the month 105 was down two points. The portion of the green signal protruding from the secondary color area indicates the difference or a five point rise from the beginning of the month to the current date. Using the same symbols in the second index element, the price at the 110 beginning of the month is one point under purchase price as indicated by the protruding orange signal strip, and the current price is six points below the purchase price. The difference between the secondary color area and the protruding orange signal strip indicates a five point drop from the beginning 115 of the month.

It is to be understood that the pair of superposed signals cooperate to indicate a plurality 120 of conditions by varying the extent of the exposed portions thereof, not only relative to each other, but also relative to the marginal portions of the index card. This signalling cooperation is usual for other things than 125 stock market conditions and wherever a plurality of indications regarding a series of constantly changing facts are desired to show their relationship, this invention is applicable in the use of the independently operated sig- 130

nals in cooperation with each other and the record card.

What is claimed is:

1. An index device comprising a card having a slot formed in one marginal portion, a pair of signal strips extending through said slot and independently movable along the marginal portion of the card, portions of said signal strips being superimposed for signalling cooperation, and means enclosing the marginal portion of said card and said signal strips.
2. An index device comprising a card, a pair of signal strips and means on one margin of said card for slidably mounting said signal strips for independent movement, one of said signal strips being of transparent material and having portions superimposed on portions of the remaining signal strip, said transparent signal strip having signalling cooperation with the portions of the remaining signal strip visible therethrough.
3. An index device comprising a card having a slot in one edge portion, a sheath enclosing the slotted edge of said card, a pair of signal strips slidably mounted between said sheath and the front of said card and forming visible portions and having other portions extending in superimposed relation through the slot in said card to the back thereof, said signal strips being independently movable relative each other for signalling cooperation between the visible portions thereof.
4. An index device comprising a card having a lateral slot in one marginal portion dividing the marginal portion into two sections, one of said sections provided with an elongated slot spaced from and parallel to said marginal portion, a signal strip mounted under said slotted section and extending through said lateral slot to overlie said unslotted section, a handle portion on said signal strip comprising a lateral extension extending through said elongated slot, a second signal strip mounted on said unslotted section, superimposed on said first named signal strip and extending through said lateral slot, and transparent means enclosing the marginal portion of the card and the signal strips, said signal strips being independently movable on the card for signalling cooperation between the portions thereof on the unslotted portion of said card.
5. An index device comprising a card having a lateral slot in one marginal portion dividing said portion into two marginal sections, one of said sections provided with an elongated slot spaced from and parallel to the edge of the marginal portion, a signal strip mounted under said slotted section and extending through said lateral slot to overlie the remaining section, a handle portion adjacent one extremity of the signal strip comprising a lateral extension thereof, said handle portion extending through the elongated slot in the card, and sheath means enclosing the marginal portion of the card and the signal strip, said handle portion extending on the surface of said card beyond the sheath and adapted for manual manipulation to move the signal strip.
6. An index device comprising a card having a lateral slot in one marginal portion dividing said portion into two marginal sections, one of said sections provided with an elongated slot spaced from and parallel to the edge of the marginal portion, a signal strip mounted under the slotted section and extending through the lateral slot to overlie the remaining section, a handle portion adjacent one extremity of the signal strip comprising a lateral extension thereof, said handle portion extending through the elongated slot in said card, and sheath means enclosing the marginal portion of the card and said signal strip, said handle extending on said card beyond said sheath and adapted for manual manipulation to move said signal strip along said marginal portion, an end wall of the elongated slot limiting the movement of said handle portion.
7. An index device comprising a card having a slot in one marginal portion, a pair of superimposed signal strips of transparent material mounted on said marginal portion and each being independently movable and both having portions extending through the slot in said card to the rear side thereof, a transparent sheath enclosing the marginal portion of said card and said signal strips, each signal strip and said card being of a different color, the superimposed portions of said strips visually combining colors to form a secondary colored signal area, either of said strips being selectively adjustable relative the other to vary the area of the secondary colored signal area, said area having signalling cooperation with portions of either signal strip protruding therefrom.
8. An index device, comprising a card, a pair of superposed signals, and means on one margin of said card for slidably mounting said signals thereon for independent movement relative to each other and the margin of the card with portions of each signal exposed and other portions concealed, the exposed portions being variable by sliding of the signals for signalling cooperation with each other and the margin of said card.
9. An index device, comprising a card, a pair of signals, and means on one margin of said card mounting said signals for independent sliding movement with portions of each exposed and other portions concealed, the exposed portions being variable by sliding of said signals for signalling cooperation with the margin of said card.
10. An index device comprising a card, a

pair of signal strips having superimposed portions and means on one margin of said card for slidably mounting said signal strips for independent movement, each signal strip
5 and said card being of a different color, the superimposed portions of said strips visually combining colors to form a secondary colored signal area, either of said strips being selectively adjustable relative to the other to
10 vary the area of the secondary colored signal area, said area having signalling cooperation with portions of either signal strip protruding therefrom.

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