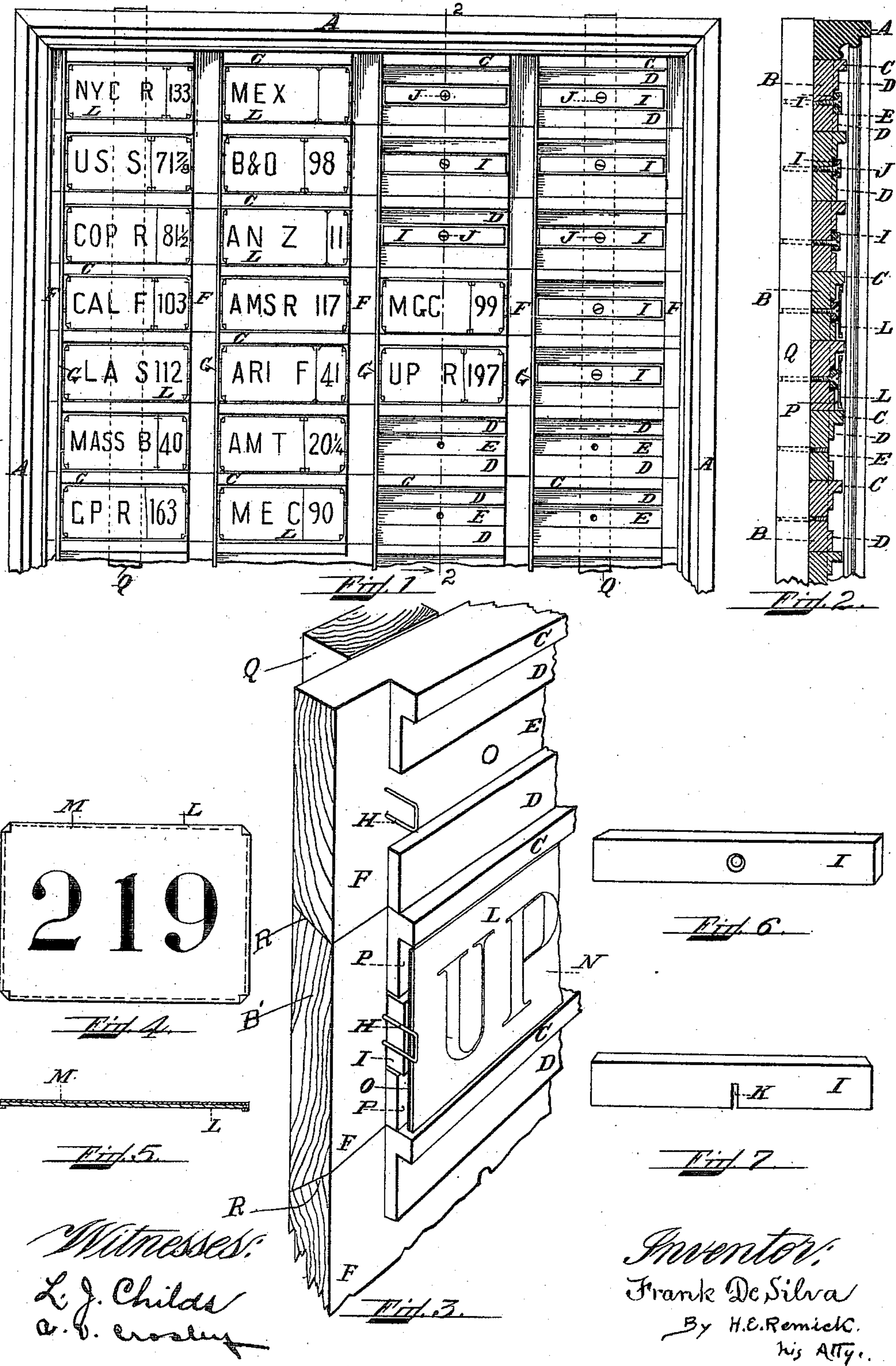


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BULLETIN.
APPLICATION FILED JULY 21, 1909.

982,940.

Patented Jan. 31, 1911.



UNITED STATES PATENT OFFICE.

FRANK DE SILVA, OF MELROSE HIGHLANDS, MASSACHUSETTS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK DE SILVA, a citizen of the United States, and a resident of Melrose Highlands, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Bulletins, of which the following is a specification.

My invention relates to improvements in bulletin boards whereon are displayed the current prices of marketable securities having fluctuating values, and it more particularly applies to that class of announcements of price quotations of railroad, mining, electric and kindred stocks and bonds displayed in the exchanges, and it applies to any similar transferable commodities where quotations may be quickly rendered and values disclosed.

The objects of my improvement are, first, to produce a bulletin or announcing board having a field of magnetic force; second, the production of a quotation card or tablet equipped to coact by attraction therewith; third, to secure a quick assemblage of interchangeable elements; fourth, an efficient construction with greater economy; and in other essentials hereinafter specified and particularly defined in the claims. I attain these objects by the apparatus illustrated in the annexed drawing forming a part of this specification in which:

Figure 1, is a front elevation of a portion of my improved bulletin partially filled with cards bearing the usual quotations. Fig. 2, denotes a vertical section thereof on line 2—2 of Fig. 1. Fig. 3, is a perspective (substantially full size) of a fragmentary end thereof. Figs. 4 and 5, designate a plan and longitudinal section respectively of the card equipment, and Figs. 6 and 7, elevations of the artificial or permanent magnets.

Corresponding letters of reference indicate similar features throughout the drawing referring to which—

A, denotes the embracing frame of any suitable material and of ornate design as may be desired, the interior or bulletin proper being composed preferably of wooden strips B of interchangeable construction and laid horizontally and compactly together, each strip comprising substantially a molding that may be "stuck" after any design that the cutters may be given, for my present purpose I construct the face of each strip or molding with a projection C on its

upper edge, a depression D immediately below, and practically central a further depression E. Said depressions or grooves are continuous and finished at the first cutting operation, and are afterward isolated by the vertical right angled grooves F made previous to, or after the assemblage of the strips B as desired, the horizontally depressed spaces thus presenting an area rectangular and in proportion to the quotation cards to be displayed. The left end of said depressions it is desirable to close. I therefore attach the vertical stop-bead or strips G to the floor of the grooves F at their right side, as well observed in Fig. 1, or I may employ the efficient method comprising the staples H shown in Fig. 3, either of which assures the vertical alinement of the cards when they are manually placed.

I will now revert to the permanent magnetic equipment comprising bars preferably of steel as at I and of dimensions to fill the length and breadth of the depressions E. These bars are magnetized, and confined in position by the screws J to the strips B or by brads through the slots K as preferred, or in any suitable stable manner, all of the spaces being thus equipped. Co-acting with said magnets, I produce the cards or tablets L their fronts bearing numbers designating the various quotations of the selling stocks or bonds in the usual manner, while the reverse side is provided with a thin sheet of non-magnetic metal M secured to the card by overlapping as illustrated, or they may be cemented or otherwise attached, this method being feasible in the utilization of old cards with a new board construction, my preferred manner however, is exemplified in Fig. 3 wherein is shown a prepared surface N enameled or otherwise treated to receive the printed or lithographed characters, the exposed metal O assuring the adherence by attraction of the tablet to the magnet in a decipherable position, while the intervening space P, permits insertion of the fingers to place and remove the card.

Rearward studs Q receive and secure the assemblage by the screws J, or preferably as illustrated in Fig. 3, where the adjacent edges R of alternate strips are beveled to confine the interposing members B', thus employing a less number of fastenings, and in part concealing the interstices in the board should shrinkage occur.

I would remark, that in the hurried manipulation of the ordinary cards in the stock exchanges they are rarely in alinement, and frequently fall from their assigned positions, and in other ways are objectionable to the attendant who places them. My improved invention is designed to obviate these difficulties by producing a card and cooperating accessories that will effect a sure union of the tablets automatically. I do not limit myself to the strict details of construction herein set forth for the mere purpose of illustration except as set forth in the appended claims.

Having thus ascertained the nature and operation of my improved invention, I claim:

1. A bulletin board for the announcement of transactions comprising a longitudinally grooved face, said board being provided with permanent magnets fixed in said grooves, said board also being provided with vertical depressions having means forming a barrier to the longitudinal grooves, composite readable elements adapted to be held by said magnets these magnets being of greater thickness than said grooves which they occupy to afford space for finger insertion to remove the elements temporarily cooperating with said magnets.

2. A bulletin board composed of separable strips placed horizontally side by side and having adjacent to the upper edges integral projections and also having central longitudinal depressions, a series of permanent magnets seated in said central depressions, said integral projections of adjacent strips forming a longitudinal card receiving depression and means vertically positioned to partition said depressions into rectilinear spaces.

3. A bulletin board for the display of transactions in bonds and similar commodities consisting of a longitudinally and verti-

cally grooved front or face, a series of magnets occupying said longitudinal grooves and means in the vertical grooves forming a barrier to the longitudinal grooves, in combination therewith a series of tablets having numerical designations on their faces and a rearward surface co-acting with said magnets to secure them in a readable position.

4. A series of molded strips of suitable material placed side by side to form a bulletin board the contiguous edges of each molding beveled to confine the alternate molding and provided with vertical grooves separating said bulletin front into substantially rectilinear spaces, permanent magnets situate in said spaces, in combination with tablets having decipherable faces and provided with rearward surfaces adapted to be held by said magnets to secure temporarily said tablets in position for interpretation.

5. A bulletin board comprising a series of moldings each molding having upon its face contiguous to the edges thereof integral depressions for the reception of removable character bearing elements and additional central longitudinal depressions, said members being provided with grooves vertically arranged to segregate said depressions, a plurality of permanent magnets therein secured, a series of display cards bearing readable symbols adapted to be held by said magnets and adapted to be removed from said magnets by inserting the fingers beneath the upper and lower edges of said cards, said magnets being of greater thickness than the depth of the depressions receiving them to facilitate said card removal.

In testimony whereof I have affixed my signature, in presence of two witnesses.

FRANK DE SILVA.

Witnesses:

JULIUS M. SCHULTZ, Jr.,
ANDREW J. CUNNINGHAM.