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[illegible]

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UNITED STATES PATENT OFFICE.

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MEMORANDUM-DIAL.

974,806.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES S. McQUINN, a citizen of the United States, residing at Newcastle, in the county of Henry and State of Indiana, have invented certain new and useful Improvements in Memorandum-Dials, of which the following is a specification.

This invention relates to improvements in memorandum dials for reminding the housewife of those articles which she is in need of and desires to order from her grocer or other dealers supplying such article. It may be used in various places around the kitchen, but is particularly desirable as an attachment for kitchen cabinet and is intended by me for that particular use.

The object of the invention is to provide a list of the leading articles required in a kitchen, arranged alphabetically in a circular series, and to provide a plurality of indicators or hands which are to be shifted over the face of the dial thus formed to a position opposite the article of which it is desired to make a memorandum.

The further object of my invention is to provide a means for retaining the dial hands in the positions given them without danger of accidental movement during the operation of setting the remaining hands.

I accomplish the objects of the invention by the means illustrated in the accompanying drawing, in which—

Figure 1 is a front elevation or face view of my invention. Fig. 2 is a detail of a slightly modified form of same. Fig. 3 is a detail in section on the line 3—3 of Fig. 2 and Fig. 4 is a like detail in section of a modified means for locking the dial hands in their given positions, and Fig. 5 is a detail in section showing one of the annular series of pins with rounded projecting heads.

Like characters of reference indicate like parts throughout the several views.

My improved dial will be printed or impressed upon sheet metal or cardboard or paper, and will preferably be on tin although in some cases I may use celluloid sheets in preference to any of the above mentioned material.

5 represents the material above mentioned and it will have inscribed upon its outer face a circular line 6 and outside of that an ornamental border here shown as a double line 7. Inside of the line 6, arranged in a circular series of lines radiating toward the center of the circle 6 is a list of the most prominent

articles needed and used in the kitchen. This list will be arranged alphabetically, as shown, beginning with the letter A at the top of the circle. The list here shown includes the names of one hundred of the prominent articles of kitchen use, principally of food materials. The sheet 5 with these names thereon, will preferably be mounted upon a wooden back 8 which, in the case of a kitchen cabinet, will be one of the panels or sides of the cabinet or one of the doors thereof.

At the center of the circle 6, passing through the backing 8 and also through the sheet 5 is a pivot, here shown as a hollow rivet 9, and mounted on this rivet 9 outside of the face of the plate 5 are a plurality of dial hands 10, here shown as five in number, although a larger or smaller number may be used without departing from the spirit of this invention. These dial hands will preferably be separated from each other by means of washers 11, and a similar washer will be placed between the sheet 5 and the lower hand, and also between the top hand and the flared end of the hollow rivet 9. The dial hands 10 will preferably be made out of sheet steel, the outer ends of which will be twisted a quarter turn so as to cause the outer portion to stand with its edge against the face of the dial. This outer end 12 of each hand will be extended downwardly so as to contact in each instance with the dial face and the tension of each hand will be such as to cause the downwardly bent ends 12 to drag normally against the dial face.

The face of the dial where the ends 12 contact with it will be provided with an annular series of outwardly projecting heads or pins 13, one of which pins will be placed in the radial line passing midway between each pair of names in the list of articles at the margin of the disk. The object of these pins is to lock the hands against accidental movement. An adjustment of one of the hands will require their ends 12 to be taken hold of between the thumb and finger of the operator and lift it outwardly out of engagement with the pins 13 whereupon it may be freely moved into a new position opposite the marginal name of the article to be designated and when there released it will be held against accidental movement by the pins opposite that name. Without some means of holding the dial hands in their given posi-

tions they are apt to be displaced by the movement of the other hands due to the friction of the hands on their common pivot 9 and against each other and their washers 11.

5 The ends of the pins or heads 13 will preferably be rounded whereby when it is desired to move the hands it is possible to accomplish same by a lateral pressure thereon which will cause the hand to spring over the projecting pins or heads 13, which will be quicker done where it is desired to bring all of the hands close together in the position in which they are illustrated in Fig. 2.

10 In Fig. 2 instead of pins 13 radial grooves 16 are pressed in the face of the dial. There will be one groove opposite each of the marginal names and the end 12 of the hand will be arrested by this groove. In order that the hands may be separately moved they will each be provided with an outward extension 18 at their respective ends and each extension will be at a different distance from the center of the disk, as clearly illustrated in Fig. 3 which will enable any one of the hands to be taken hold of separately. The grooves 16 will be easily formed in the dial face by the use of a suitable die in the manufacture of the article.

Another form of locking device for the hands may consist of an annular metal band 20, see Fig. 4, seated in a suitable groove in the dial face, edge out, the said outer edge being provided with notches 21 to retain the ends 12 of the dial hands.

35 In the modification shown in Fig. 2 the list of articles at the margin have the tops of their letters reversed on each side of the vertical plane through the center of the disk in order to avoid presenting the names upside down on the right-hand side as occurs in the style of lettering shown in Fig. 1.

40 While I have shown and described the preferred embodiment of my invention, it will be understood that I do not wish to be

limited to the precise construction herein set forth, since various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus fully described my said invention, what I desire to secure by Letters Patent, is—

1. A memorandum dial comprising a circular face-plate having an annular series of raised corrugations and a corresponding series of names of articles arranged opposite said corrugations, a hollow sleeve or rivet at the center of the plate, a plurality of dial-hands mounted on said rivet said hands being formed of flat spring-metal the outer ends of which have a quarter twist forming an edge to engage the corrugations of the face-plate and said outer ends having handle-extensions which vary from each other in their distance from the center of the face-plate, and washers separating said hands.

2. A memorandum dial comprising a circular face-plate having an annular series of half-round corrugations forming protruding portions and a corresponding series of names of articles arranged opposite said corrugations, a pivot at the center of the plate, a plurality of dial-hands mounted on said pivot said hands being formed of elastic strap-metal, the outer ends of which have a quarter twist forming an edge to engage the corrugations of the face-plate, and washers separating said hands.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this, 4th day of June, A. D. one thousand nine hundred and nine.

JAMES S. McQUINN. [L. S.]

Witnesses:

J. WALLACE HUFFORD,
GEO. K. GRANT.