May 14, 1968 D. N. VOLGER 3,382,594

CREDIT CARD LIST VIEWER

Filed Sept. 30, 1965

FIG. 1.

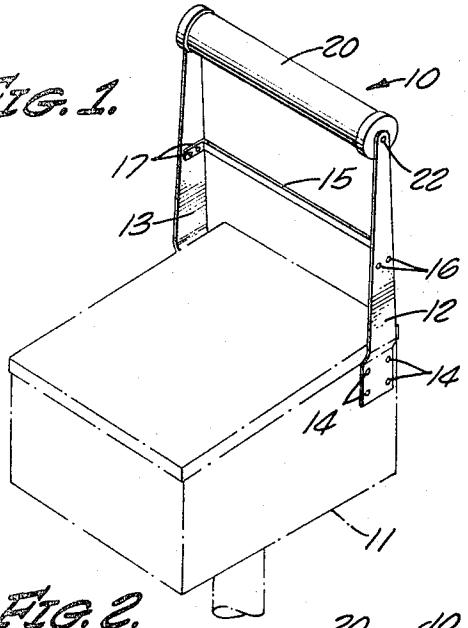


FIG. 3.

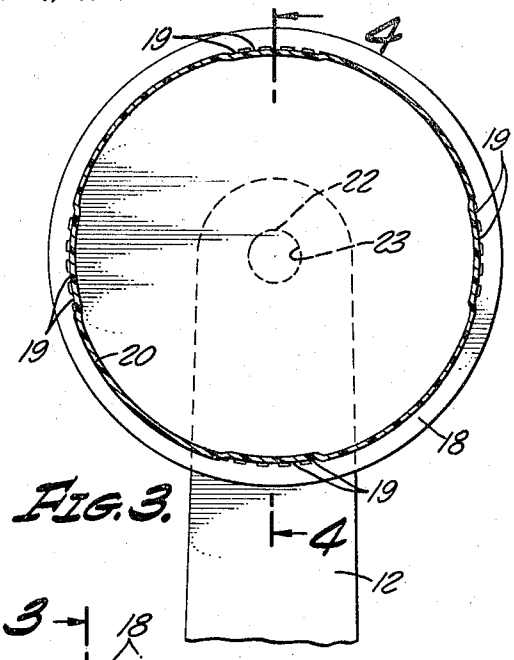
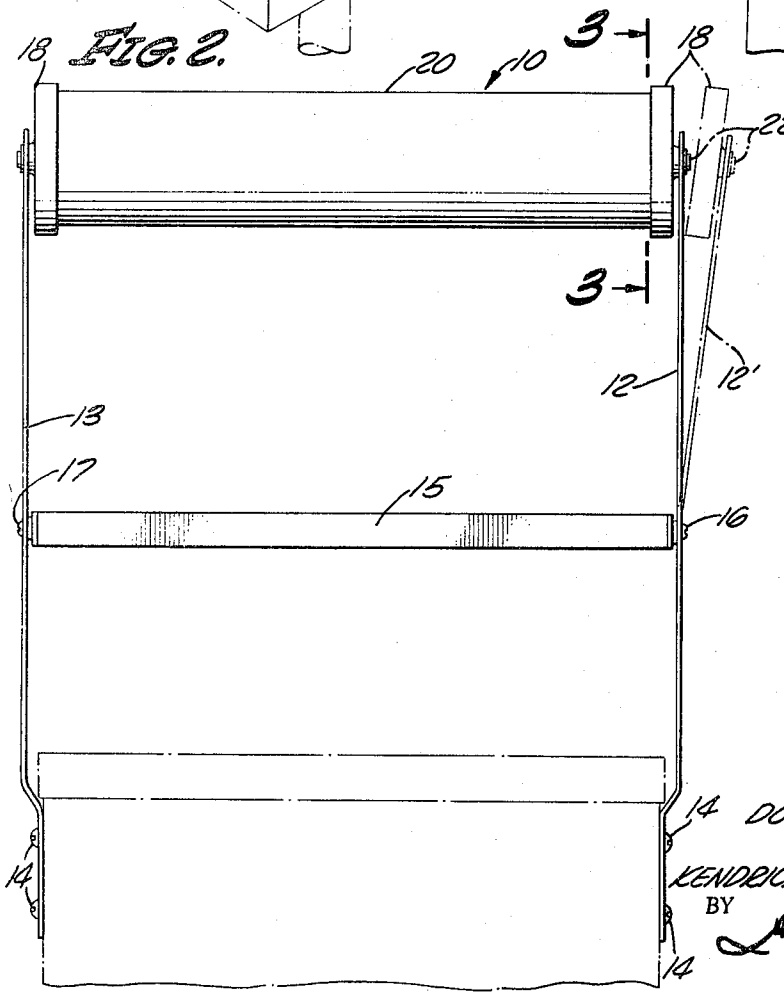


FIG. 2.



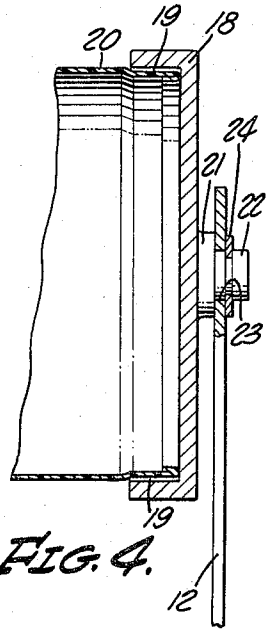


FIG. 4.

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CREDIT CARD LIST VIEWER

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ABSTRACT OF THE DISCLOSURE

A clear plastic, tubular device to hold a sheet of paper containing a list of rejected credit cards rotatable in a pair of brackets.

This invention relates to movable viewers, and more particularly to a rotatable viewer for a list of defective credit cards for use in gasoline service stations and the like.

In the past shopping guides such as that shown in U.S. Patent No. 2,687,589 have incorporated rather complicated rotatable viewers.

In accordance with the device of the present invention, a credit card list viewer is provided with very few uncomplicated component parts, including a pair of leaf spring supports, a transparent cylinder and connection means at the end of each support rotatable thereon for holding the ends of the cylinder.

In accordance with a feature of the present invention, a cup is provided at each end of each support, the cups facing each other. The cups are rotatably mounted about their axes on the supports. The transparent cylinder then has its ends locked in the cups.

According to another feature of the present invention, the cups are provided with gripping means on the interior thereof to prevent rotation of the cylinder in the cups.

According to a further feature of the present invention, the supports are bowed in slightly to supply an axial bearing load on the cups to prevent their rotation without the application of a rotative force thereto.

The above-described and other advantages of the present invention will be better understood from the following description when considered in connection with the accompanying drawings.

In the drawings, which are to be regarded as merely illustrative:

FIG. 1 is a perspective view of a viewer constructed in accordance with the present invention;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a transverse sectional view of the viewer taken on the line 3—3 shown in FIG. 2; and

FIG. 4 is a longitudinal sectional view through the viewer taken on line 4—4 shown in FIG. 3.

In FIG. 1 a viewer **10** is shown mounted on a service station cash box **11**. Viewer **10** includes standards **12** and **13** which are fixed to cash box by screws **14**. Standards **12** and **13** are braced from one another by a bracket **15**. Bracket **15** is fixed to standard **12** by metal screws **16** and to standard **13** by metal screws **17**.

All of the structures surrounding the upper end of bracket **13** are identical to those surrounding the upper end of bracket **12**. For this reason, in FIG. 4 only those structures surrounding the upper end of bracket **12** will be described.

A cup **18** is rotatably mounted on bracket **12**. Cup **18** has internal projections **19** which frictionally engage the

ends of a transparent plastic cylinder **20**. Cylinder **20** may be made of clear plastic or celluloid or the like. Cup **18** has a boss **21** that bears against bracket **12**. Cup **18** has a shaft **22** that projects through a hole **23** in bracket **12**. Cup **18** is retained on bracket **12** by a conventional snap ring **24**.

Standards **12** and **13** act as leaf spring supports. They are normally bowed in slightly. This places an axial bearing load on cups **18** and keeps cups **18** in a fixed position unless they are rotated manually. Projections **19** in cups **18** keep cylinder **20** from rotating in cups.

Normally numbers of credit cards not currently valid are printed on a rectangular sheet. This sheet may be rolled and assembled inside cylinder **20**. This may be done by springing standard **12** to position indicated at **12'** and completely removing cylinder **20** from cups **18**. The list of credit card numbers may then be inserted inside cylinder **20**. Cylinder **20** may then be re-inserted in cups **18** in the position shown in solid lines in FIG. 2.

Although it is a feature of the present invention that the cups are placed in axial compression, this is not an absolute requirement of the broader concept of the present invention. In the event that no axial compression is employed, cups **18** or cylinder **20** may be counterweighted, if desired, to hold cylinder **20** in one position only when it is not turned.

Note will be taken that any means may be substituted for cups **18** to support cylinder **20**. For example, devices having spring fingers to engage the interior or exterior of cylinder **20** may be provided for that purpose.

Although only a few embodiments of the present invention have been described and illustrated herein, many changes and modifications will, of course, suggest themselves to those skilled in the art. The present invention should, therefore, not be limited to the embodiments selected for this disclosure, the true scope of the invention being defined only in the appended claims.

What is claimed is:

1. A credit card list viewer comprising: a pair of leaf supports; a cup at the end of each support, said cups facing each other; means rotatably mounting said cups about their axes on said supports; and a transparent cylinder having its ends in said cups; said cups having circumferential gripping means on the interior thereof to prevent rotation of said cylinder in said cups, said supports being bowed in to supply an axial bearing load on said cups to prevent rotation of said cups without the application of a force thereto; each of said cups having a base and a cylindrical side wall, said side walls having a plurality of inwardly directed, spaced projections thereon to act as said gripping means.

2. A credit card list viewer comprising: a pair of leaf spring supports; a cup at the end of each support, said cups facing each other; means rotatably mounting said cups about their axes on said supports; and a transparent cylinder having its ends in said cups, said cups having circumferential gripping means on the interior thereof to prevent rotation of said cylinder in said cups; each of said cups having a base and a cylindrical side wall, said side walls having a plurality of inwardly directed, spaced projections thereon to act as said gripping means.

3. A credit card number listing device, comprising: a pair of spaced, elongated flexible supports; a cup affixed to the end of each support, the open portions of said cups in facing registry; means rotatably mounting said cups

about their axes on said supports; and a transparent hollow cylinder with its ends received within the open portions of said cups; each of the cups having a plurality of spaced circumferential gripping means on the interior thereof for receiving the ends of the transparent cylinder and for exerting a transverse force on the cylinder ends to deform the cylinder end walls thereby securing the cylinder within the cups for rotation therewith.

References Cited

UNITED STATES PATENTS

1,546,992	7/1925	Oppman	40—68 X
1,909,708	5/1933	Neuwirth	40—19 X

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