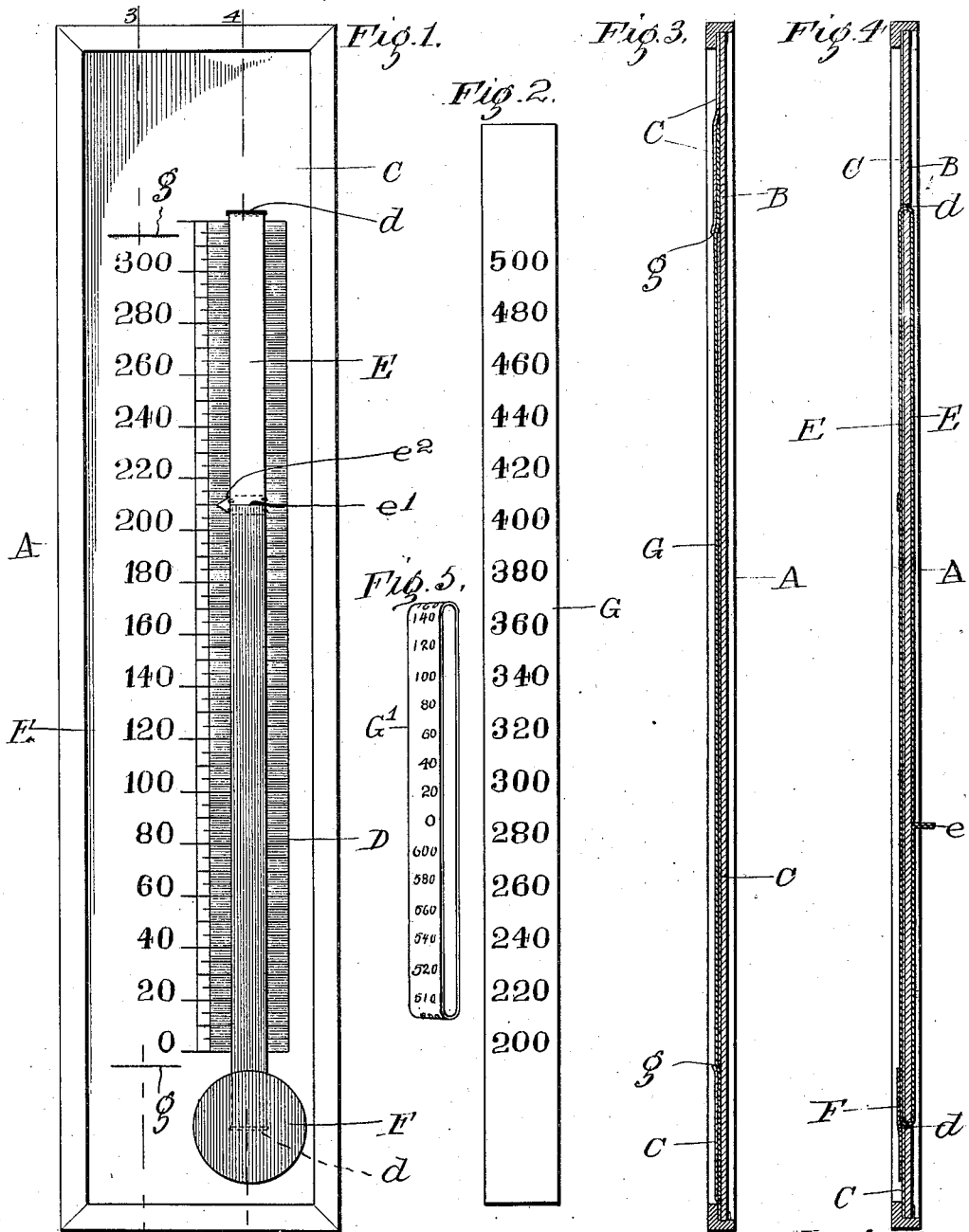


No. 842,495.

PATENTED JAN. 29, 1907.

W. B. ROSE.
ATTENDANCE INDICATOR.
APPLICATION FILED JAN. 13, 1906.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM B. ROSE, OF CHICAGO, ILLINOIS.

ATTENDANCE-INDICATOR.

No. 842,495.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed January 13, 1906. Serial No. 295,883.

To all whom it may concern:

Be it known that I, WILLIAM B. ROSE, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Attendance-Indicators, of which the following is a specification.

My invention relates to improvements in attendance-indicators, and is fully described and explained in this specification and shown in the accompanying drawings, in which—

Figure 1 is an elevation of my improved device. Fig. 2 is a similar view of one of the additional scales. Fig. 3 is a section in the line 3 3 of Fig. 1. Fig. 4 is a section in the line 4 4 of Fig. 1, and Fig. 5 is a perspective view of a modified form of expansible scale.

Referring to the drawings, A is a suitable frame, preferably rectangular in form and of the same general proportions as the base of an ordinary thermometer. Secured within this frame is a flat plate of wood, metal, pasteboard, or the like B. In front of the plate B is a sheet C of any desired material, preferably of paper, celluloid, or a similar substance, but possibly of sheet metal or another material of the same kind. At one side of this sheet C is a scale D, regularly subdivided from top to bottom, and opposite this scale D is a series of numerals E, marking the various subdivisions of the scale. Above and below the scale D are slots *d*, through which extends a flexible endless band *E*, composed of material of two different colors, preferably having secured to it on that portion of its length at the back of the plate B a handle *e*. For instance, in the device illustrated in the drawings the band is composed of a red lower and a white upper portion joined at *e'*. The indicator, formed by the junction of the two colors, is accentuated by a pointer *e''*. To simulate as much as possible the appearance of a thermometer, a wafer F covers the lower slot *d*, and this wafer corresponds in color to the lower portion of the band, so that the band appears like a column of colored liquor rising from the bulb of a thermometer.

My device is intended primarily for use in Sunday-schools and the like, where a high attendance is sought and some suitable and conspicuous record of the attendance is desired. With my device it is very easy by merely setting the joining-point of the two

parts of the band opposite the proper figure to indicate exactly the attendance in a graphic and conspicuous manner. I find that by the use of such a device great interest is aroused among the attendants of the Sunday-school, for in practice the same is reset each week and the children are very anxious to have it rise rather than fall. In this way the children are given an interest in the size of the school and put forth unusual efforts to increase the attendance.

It will be obvious that when the attendance at the school reaches the top of the scale some apparatus other than an entirely new one should be devised to accommodate the growing needs, and for this purpose I provide slots *g* above and below the line of numerals E, and through these slots I pass the ends of a supplemental scale G, which is one of a series of supplemental scales furnished with the device. It will be obvious that in changing from one scale to another if one began where the other ended constant confusion would arise if the attendance were not reasonably regular, for in such a case continual shifting of the scales would be necessary, which would destroy the effectiveness of the device as a graphic representation. I therefore make each scale of the series overlap the one before it, as illustrated in the drawings. For instance, the scale E ceases at "300," while the scale G commences at "200." Therefore when the attendance reaches three hundred the new scale can be inserted and will indicate all reasonable fluctuations of attendance and a large amount of increase. In the modified form shown in Fig. 5 the scale is applied to an endless band, which is passed through the slots *g*, and in this case the supplemental scales are added to the original one, running, however, in numerical progression from "0" to the highest number. In this instance the average attendance may be shown midway between the ends of the scale regardless of its amount by merely moving the endless band to bring the average attendance approximately midway between the ends of the sheet. It will be seen that whatever the figures upon the numeral-scales may be the units are substantially the same in size and correspond to the proper markings on the scale D beneath the moving band or ribbon.

I realize that considerable variation is possible in the details of this construction with-

out departing from the spirit of my invention, and I do not, therefore, limit myself to the specific form herein shown.

I claim as new, and desire to secure by Letters Patent—

1. In a device of the class described, the combination with a plate and suitable perforations and slots therein, of an endless marking-band passed through said perforations in said plate, an indicator upon the band in front of said plate and a band having a scale thereon passing through said slots in said plate.

2. In a device of the class described, the combination with a plate and suitable slots and perforations therein, of an endless marking-band passed through said perforations, an indicator upon the same in front of the

plate, and a second endless band having a scale thereon passing through said slot and adapted to be moved to bring different portions of its length in front of said plate.

3. In a device of the class described, the combination with a plate and suitable slots and perforations therein, of an endless two-color marking-band passed through said perforations, and a band having a scale thereon passing through slots in the plate.

In witness whereof I have signed the above application for Letters Patent, at Chicago, in the county of Cook and State of Illinois, this 11th day of January, A. D. 1906.

WILLIAM B. ROSE.

Witnesses:

CHAS. O. SHERVEY,
K. M. CORNWALL.