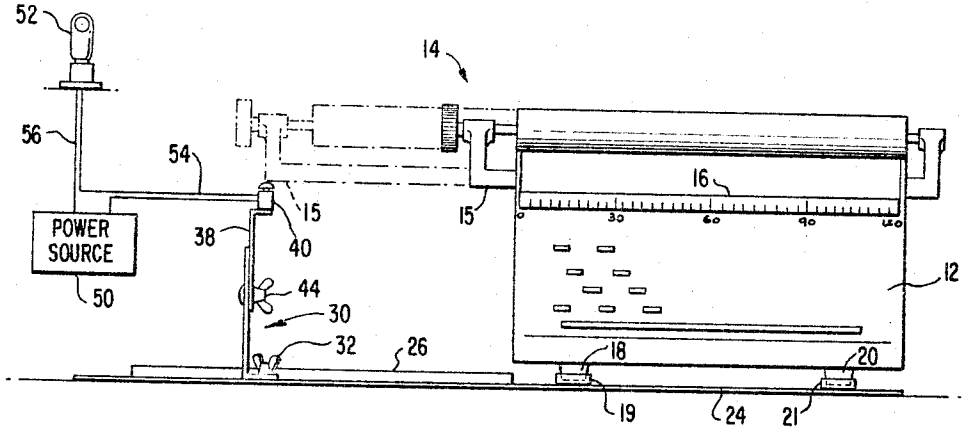
Sept. 6, 1966 H. C. BAKER 3,270,854

VISIBLE MARGIN SIGNAL APPARATUS

Filed Sept. 2, 1964

FIG. 1



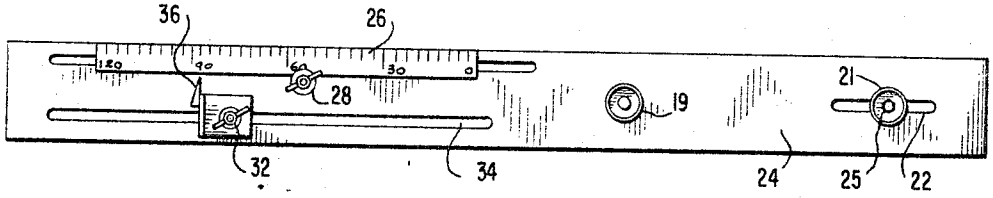


FIG. 2

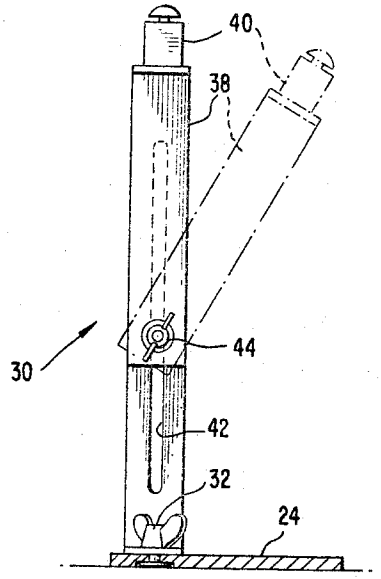


FIG. 3

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VISIBLE MARGIN SIGNAL APPARATUS

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2 Claims. (Cl. 197—187)

This invention is concerned with apparatus for providing a visible signal of the right margin when using a typewriter.

Conventional typewriters are equipped with an audible signal for indicating the end of a line being typed. This arrangement is not adequate for a typist who cannot hear. Conspicuously absent from the typewriter market has been a typewriter which could be used efficiently by a deaf typist. The lack of a visible signal for the right margin has been a handicap which substantially prevents efficient use of typewriters by persons who cannot hear.

It is an object of this invention to provide a typewriter right margin visible signal for typists who cannot hear or for those who do not desire to use an audible signal.

It is a further object of the present invention to provide visible margin signal apparatus with adjustable features permitting the apparatus to be attached simply to any conventional typewriter without alteration to the typewriter.

Another object of the present invention is to provide visible margin signal apparatus which can be used with any conventional typewriter without any interior connections or modifications to the typewriter.

In describing the invention, reference will be had to the accompanying drawings, wherein:

FIGURE 1 is a schematic diagram of apparatus embodying the invention,

FIGURE 2 is an enlarged view of base means forming part of the present invention; and

FIGURE 3 is an enlarged view of switch support means forming part of the present invention.

The present invention is universal in that it can be applied to any conventional typewriter. Normal application of the present invention requires no modification of the typewriter and, with inherent simplicity of operation, the invention can be used by anyone having a rudimentary knowledge of a typewriter.

Referring to FIGURE 1, typewriter **12** includes carriage **14** and carriage frame **15**. Carriage **14** and frame **15** moves as one to the left and right in conventional operation. Spaces along a line of copy being typed are divided along typewriter copy scale **16** and usually include one hundred twenty spaces per line. Typewriter **12** rests on supports such as feet **18** and **20**.

Apparatus of the present invention can be positioned relative to a typewriter merely by placing base bar **24** under the typewriter **12**, for example, by placing support feet **18** and **20** in base bar sockets **19** and **21**, as shown in FIGURE 1.

Referring to FIGURES 1 and 2, one of the base bar sockets is adjustable longitudinally of base bar **24**, e.g. socket **21** can be moved along slot **22** and secured at a desired location with nut and bolt assembly **25**. This permits adjustment of socket location for differing size typewriters.

A base scale **26**, divided and numbered so as to correspond with the typewriter copy scale **16**, is carried on base bar **24**. The position of scale **26** can be adjusted longitudinally of the base bar **24** by scale adjustment nut and bolt assembly **28**.

A switch support means **30** is secured to support base bar **24** by wing nut and bolt assembly **32**. This assembly permits the switch support means **30** to be positioned longitudinally of the support base bar **24** by movement along slot **34**. An indication of the position of switch

support means **30** relative to scale **26** is provided by indicator **36**.

Referring to FIGURES 1 and 3, switch support means **30** includes an adjustment arm **38** which supports switch **40** at its upper end. The position of arm **38** can be adjusted vertically by movement along slot **42**; its horizontal position can be changed by pivoting arm **38** at wing nut and bolt assembly **44**.

Switch **40** is electrically connected to an electric power source **50** and light **52** by electrical connectors **54** and **56**. Power source **50** can be a battery for portable operation or an A.C. source. Electric connectors **54** and **56** permit positioning of light **52** as best suited for individual typists.

In operation base bar **24** can be placed beneath the typewriter **12** with typewriter feet **18** and **22** resting on the base bar **24**, or the base bar **24** can be bolted to typewriter **12**, or held magnetically to the typewriter **12**, or otherwise held in fixed positional relationship to typewriter **12** and carriage frame **15**.

The zero indication on base copy scale **26** should then be positioned vertically below the zero indication on typewriter copy scale **16**. This may be accomplished initially by visual alignment.

Switch **40** is then positioned so that carriage frame **15** contacts switch **40** upon movement of the carriage **14** to the left, as shown in dotted lines in FIGURE 1. The position of base copy scale **26** is then coordinated with the typewriter copy scale **16**. The position of carriage **14** along typewriter copy scale **16** is taken when carriage frame **15** initially contacts switch **40**. The readings on the typewriter copy scale **16** and the base copy scale **26** should be identical at this point. Any difference in readings between the two can be corrected by adjustment of base copy scale **26** longitudinally of base bar **24**. With identical readings base copy scale **26** is properly positioned.

After positioning and adjustment of the apparatus, the desired right margin for any sheet to be typed can be set by merely moving support means **30** along base copy scale **26** until indicator **36** points to the desired right margin number for the sheet to be typed. At the end of each typed line, carriage frame **15** will then contact switch **40** at the desired right margin indication and light **52** will be illuminated in response to that contact. Carriage frame **15** will maintain light **52** illuminated until the carriage **14** is returned to the right, releasing switch **40**.

Various refinements to the specific embodiment of the present invention described above can be made, for example, the contact button of switch **40** is rounded to permit smooth contact with carriage frame **15** regardless of direction of movement of carriage **14**. Also, various modifications in the adjustment and positioning means for scale **26** or support means **30** or adjustment arm **38** can be made in the light of the above description of a specific embodiment. Such refinements and modifications can be made while relying on the principles of the present invention for effective operation. Therefore, it is understood that the scope of the present invention is to be determined from the appended claims.

What is claimed is:

1. In combination with a typewriter having a movable carriage and a copy scale for designating letter spaces between left and right margin positions of the movable carriage, apparatus which is readily coordinated with the typewriter copy scale, without modification of the typewriter, to produce a visible signal at a desired right margin position for the movable carriage comprising

elongated base bar means including means for fixing the position of the elongated base bar means with

relation to the typewriter so that longitudinal movement along the elongated base bar means coincides with movement of the movable carriage,

a base copy scale mounted on the elongated base bar means, the base copy scale including scale markings corresponding to the typewriter copy scale markings, with the base copy scale and typewriter copy scale being aligned longitudinally upon positioning of the elongated base bar means with relation to the typewriter,

means for coordinating scale markings of the base copy scale with the typewriter copy scale,

vertically-oriented switch support means mounted on the base bar means,

means for moving the switch support means toward and away from typewriter along the base copy scale longitudinally of the elongated base bar means to select a marking along the base copy scale corresponding to desired right margin position for the movable carriage,

indicator means attached to the switch support means for indicating the position of the switch support means along the base copy scale,

a switch held in fixed position by the switch support means, without interconnection with the movable carriage, so as to be mechanically actuated by the movable carriage at the selected marking along the base scale corresponding to the desired right margin position for the removable carriage,

means for adjusting the vertical position of the switch to contact the movable carriage upon movement of the movable carriage to the desired right margin position,

a source of electrical power, and

light means connected to the source of electric power through the switch so as to give a visible indication of desired right margin for the movable carriage upon mechanical contact of the movable carriage with the switch.

2. The apparatus of claim **1** in which the typewriter includes support feet and the means for fixing the position of the elongated bar means with relation to the typewriter comprises socket means mounted on the elongated bar means for receiving the typewriter support feet.

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