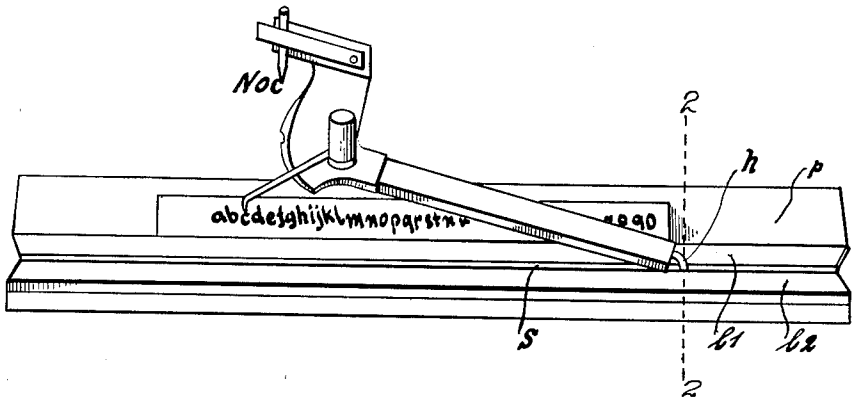
Sept. 16, 1930. H. KASSEBAUM 1,775,904

PANTOGRAPHIC SCRIBING INSTRUMENT

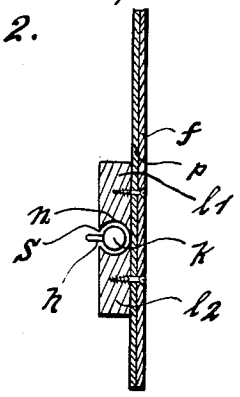
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Fig. 1.



2/2

Fig. 2.



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UNITED STATES PATENT OFFICE

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PANTOGRAPHIC SCRIBING INSTRUMENT

Application filed October 18, 1927, Serial No. 226,995, and in Germany July 25, 1927.

Pantographic scribing instruments have become known which comprise a writing frame guided on the surface to be written upon by a stylus producing the types, by a pin in the engraved character-grooves of an alphabet-strip, and by another pin in a groove extending parallel to the alphabet. It frequently happens that the guide-pin slips out of the guide groove during the writing.

This invention has for its object to avoid this inconvenience.

An embodiment of the invention is illustrated by way of example, in the accompanying drawing in which

Fig. 1 shows the instrument ready for writing.

Fig. 2 is a section on line 2—2 of Fig. 1.

In a rule a guide-groove n of circular cross section is arranged which opens thru a slot s in the top of said rule. A guide-pin h in the rear end of the instrument terminates in a ball k which fits into the groove n.

For using the instrument the ball k has to be introduced at the end of the rule into the groove n so that the shaft h of the ball can move with clearance in the slot s and the instrument can be slightly tilted transversely in the groove. Detachment of the writing instrument from the guide-groove n is impossible so that during writing the writer need merely pay attention to the writing and to the guiding of the instrument on the alphabet.

To facilitate the introduction of the ball k into the groove n the ends of the rule are funnel-shaped.

The rule may be preferably composed of two halves 1^1, 1^2 so that it is possible to polish, prior to the writing, the two halves of the circular groove to facilitate sliding of the ball. The two halves of the rule are fixed on a strip p of glazed board, celluloid or similar material and pushed over the projecting long side of the same behind the parallel T-square, or fixed on a plane table-plate by means of an iron-rule. To prevent slipping of the rule on the surface to be written upon, the lower surface of the rule is lined with emery or with a strip of flint-paper f. The shaft h of the guide-ball n of the pantographic scribing instrument is curved so that, starting from the end of the instrument, it is bent downward so that the head-end of the writing instrument can be lifted up to the vertical position, this being very advantageous for the handling of the apparatus.

I claim:—

1. A pantographic scribing instrument comprising a rule having a longitudinally extending guide groove of circular cross section, said groove opening thru a slot in the top of said rule, a pantographic scribing device having a stylus for tracing characters mounted on said rule, a ball slidably fitting said groove, and a connection between said ball and device passing thru said slot.

2. A pantographic scribing instrument comprising a rule, composed of two longitudinal sections, said sections being so spaced and having their adjacent edges so shaped as to form between them a groove of circular cross section with a slot at the top, a support on which said two halves of said rule are fixed, a pantographic scribing device having a stylus for tracing characters mounted on said rule, a ball slidably fitting said groove, and a connection between said ball and device passing thru said slot.

3. A pantographic scribing instrument comprising a rule having a longitudinally extending guide groove of circular cross section, said groove opening thru a slot in the top of said rule, the ends of said rule being inclined toward said groove, a pantographic scribing device having a stylus for tracing characters mounted on said rule, a ball slidably fitting said groove, and a connection between said ball and device passing thru said slot.

In testimony whereof I affix my signature.

HEINRICH KASSEBAUM.