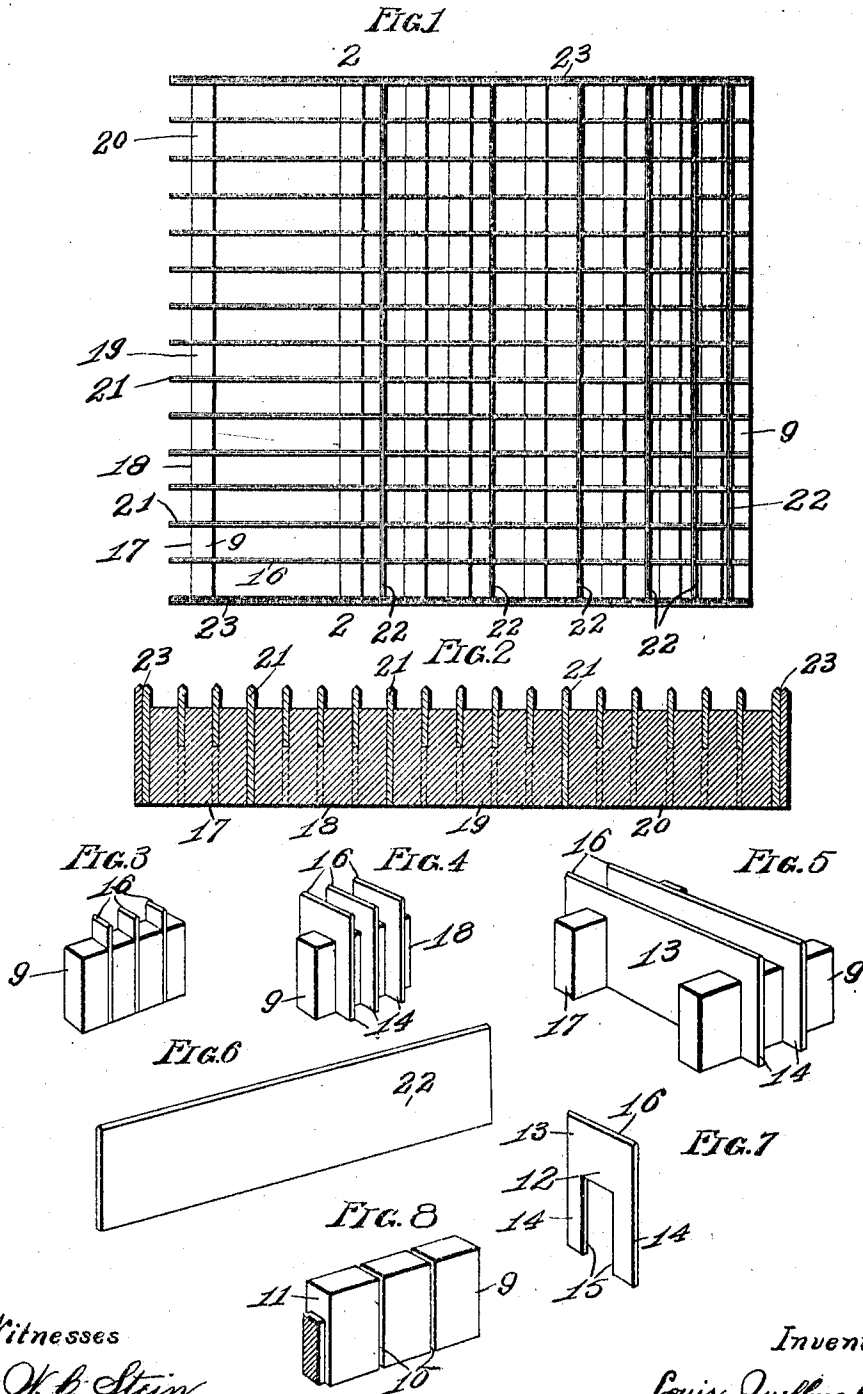


L. QUELLMALZ.  
 RULING FORM FOR PRINTERS' USE.  
 APPLICATION FILED JAN. 11, 1911.

1,004,590.

Patented Oct. 3, 1911.



Witnesses

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# UNITED STATES PATENT OFFICE.

LOUIS QUELLMALZ, OF ST. LOUIS, MISSOURI

## RULING-FORM FOR PRINTERS' USE.

1,004,590.

Specification of Letters Patent.

Patented Oct. 3, 1911.

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### To all whom it may concern:

Be it known that I, LOUIS QUELLMALZ, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Ruling-Forms for Printers' Use, of which the following is a specification.

This invention relates to improvements in a ruling form for printers' use and has for its object a plurality of slugs of various sizes provided with ruling sections, and so arranged as to be placed together bringing the ruling surface in perfect alinement.

A further object of my invention is to construct a ruling form composed of sections which may be of any width and length and provided with ruling sections also of any length and spaced at equal distances apart, the same so arranged as to be connected together so as to form a ruling surface of any length, and by these sections any size of ruling form can be built.

Figure 1 is a top plan view of my improved ruling form showing the contacting, or ruling surface. Fig. 2 is a sectional view taken through a row of slugs, and on the line 2—2 of Fig. 1. Fig. 3 is a detail perspective view of a slug showing the ruling sections of the same width. Fig. 4 is a detail perspective view of a slug showing the ruling sections of a width greater than that of the slug. Fig. 5 is a detail perspective view of a pair of long ruling sections showing their connection with a pair of slugs by which the same are supported. Fig. 6 is a detail perspective view of one of the ruling plates by which the cross lines and border is formulated. Fig. 7 is a detail perspective view of one of the ruling sections detached from the slug. Fig. 8 is a detail perspective view of a slug with part in section showing the grooves formed thereon in which the ruling sections are applied and supported.

In the construction of my invention I provide a plurality of slugs 9 constructed of any desired thickness and length, the same being provided with grooves 10 extending into the sides of the slug and its horizontal portion 11 of suitable depth to accommodate the insertion of the portion 12 of the ruling sections 13. The sections 13 are provided with elongated projections or legs 14, the edges 15 fitting into the grooves 10 of the slugs and by this construction the ruling sections are rigidly supported and attached

to the slugs, the horizontal edge 16 forming the type or ruling surface by which the impression is made when the proper number of slugs and ruling sections are built together to complete the form.

The slugs are preferably constructed in assorted lengths, arranged forming a slug provided with or carrying two ruling sections, up to any number.

As shown in the drawings (Fig. 2) a row of slugs are built together comprising a slug 17, having two ruling sections, a slug 18 having three ruling sections, a slug 19 having four ruling sections and a slug 20 provided with five ruling sections. Between the abutting edges of the various slugs is placed an abutting ruling section 21, which is of a solid plate of the same width as the ruling sections carried by the slugs, and its printing surface of the same design as the remainder of the ruling sections.

In order to formulate the cross lines I place in the form between the joining edges of the ruling sections a ruling plate 22. These plates are made of any desired length and when building up the form the plates 22 are selected of the required length of which the form is to be built, and the same may also be used to form the border lines 23 if such is desired.

By this construction of form composed of various sizes of sections any number of lines can be arranged both horizontal and vertical and any length and width, the essential feature of the invention being the formation of slugs carrying ruling sections, all being made of such material, especially the printing surfaces, as is well known to the printers' trade, and the printing surface may be either solid lines, dotted or dash lines or of any other configuration, and if in the event, by chance any one number of the ruling sections may become worn or otherwise demolished, the same can be readily removed from the grooves in the slug and a new one replaced.

If it is desired to have any printing matter between any one or number of the sections, the same can be so arranged by removing any one or number of said sections and inserting type in lieu thereof without in any manner injuring the remaining portion of the form.

The device is simple in construction and is a great labor saving device for printers when desiring to build up a form where a

great deal of ruling is required, each line being in proper alinement.

Having thus fully described my invention, what I claim as new and desire to have secured to me by the grant of Letters Patent, is:

1. A ruling form for printers' use comprising elongated rectangular slugs of various lengths and provided with connecting grooves in their sides and top at equal distances apart, slotted ruling sections inserted in the grooves and firmly held on the slugs, and ruling plates arranged parallel with the slugs and contacting with the abutting edges of the ruling sections for forming the cross rules of the form, substantially as specified.

2. A ruling section for printers' use comprising a form composed of a plurality of

elongated rectangular slugs of various lengths, each slug provided with grooves on the sides and top and each groove formed at equal intervals apart, ruling sections of various lengths provided with projections by which said ruling sections are held in rigid position within the grooves of the slugs, and plates adapted to be placed against the abutting ends of the ruling sections for forming the close lines in the form, substantially as specified.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

LOUIS QUELLMALZ.

Witnesses:

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