

(No Model.)

2 Sheets—Sheet 1.

E. KÖNIG.

TYPE BED FOR PRINTING MACHINES.

No. 361,224.

Patented Apr. 12, 1887.

Fig. 1.

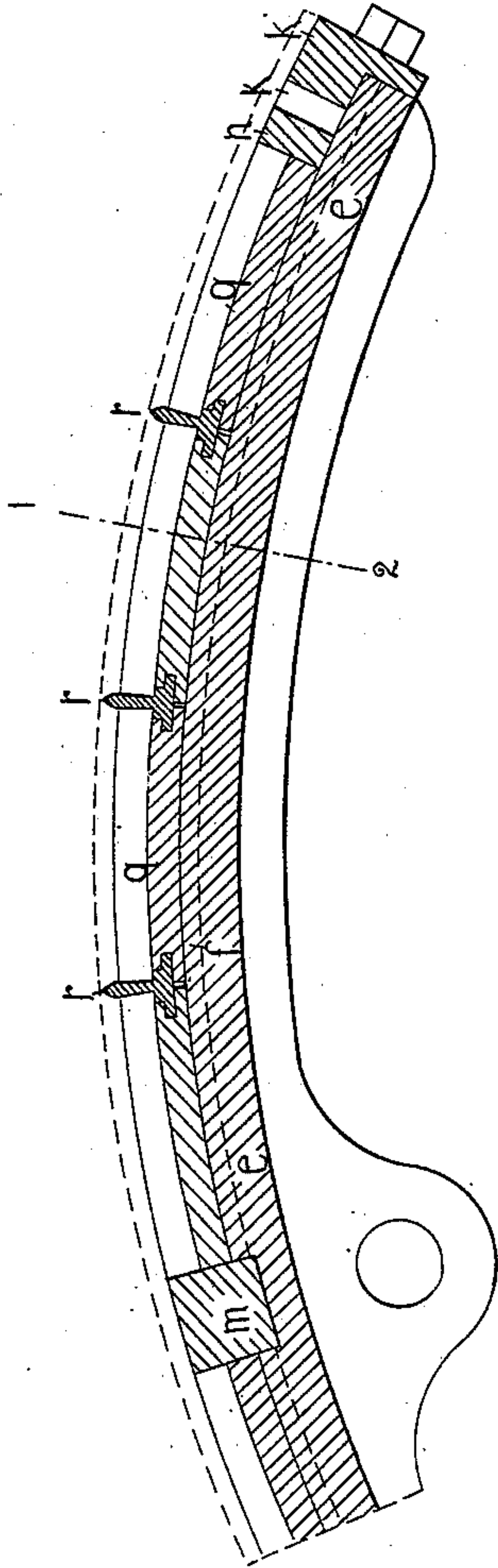
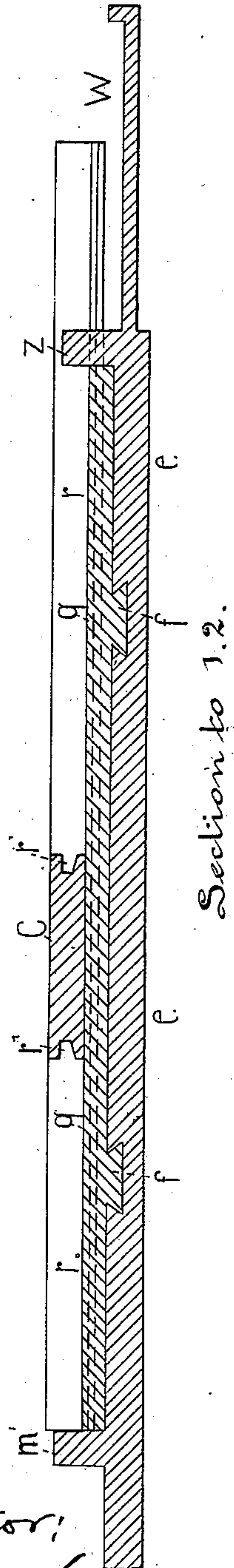


Fig. 3.



Section to 1.2.

Attest:
f. A. Hopkin
Edward Steer.

Inventor:
Edgar König
By Ernest R. R. R.
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(No Model.)

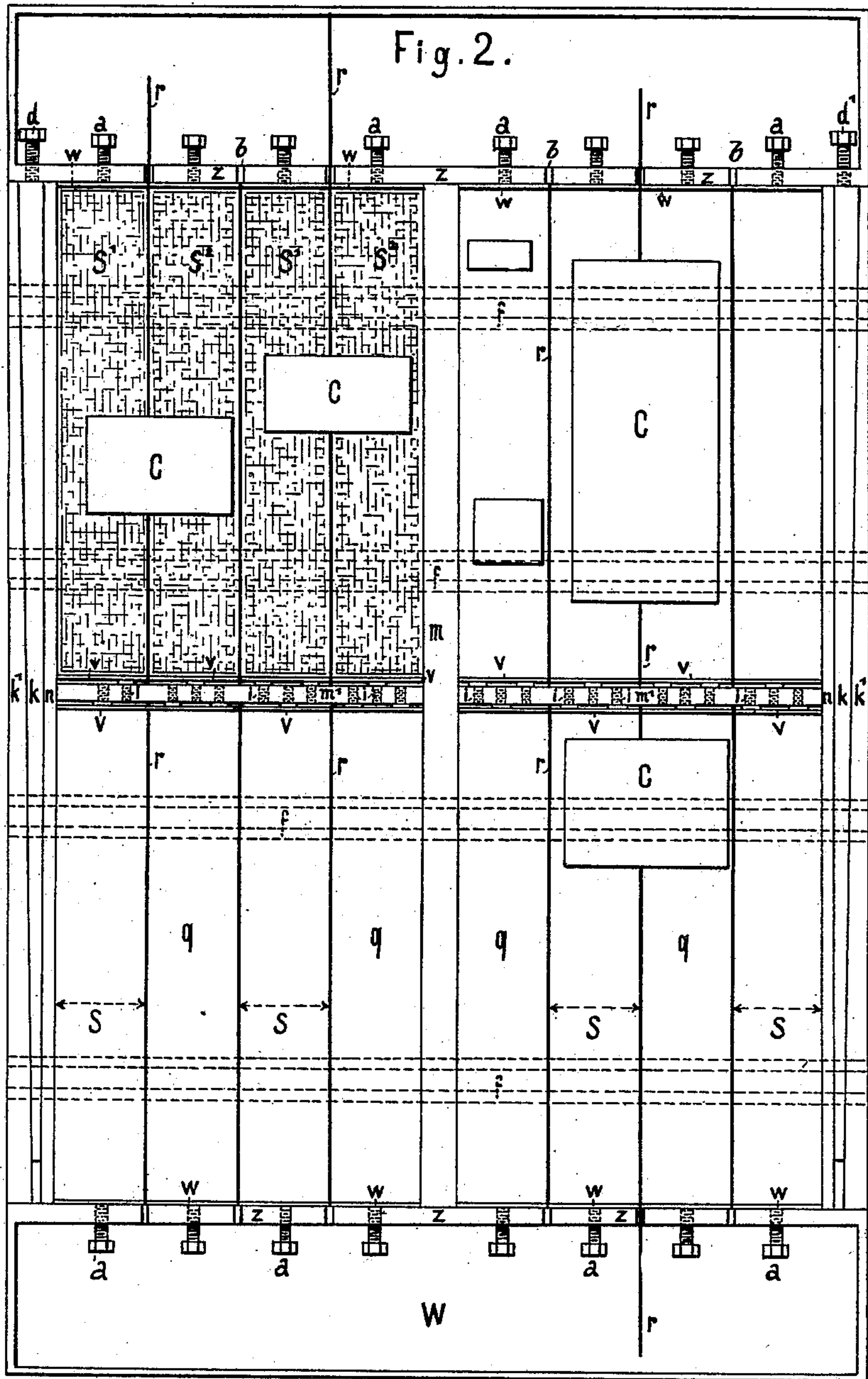
2 Sheets—Sheet 2.

E. KÖNIG.

TYPE BED FOR PRINTING MACHINES.

No. 361,224.

Patented Apr. 12, 1887.



Attest:
F. A. Hopkins,
Edward Steer.

Inventor:
Edgar König.
By Knight Bros
his attys

UNITED STATES PATENT OFFICE.

EDGAR KÖNIG, OF KLOSTER-OBERZELL, NEAR WÜRZBURG, BAVARIA, GERMANY, ASSIGNOR TO KOENIG & BAUER, OF SAME PLACE.

TYPE-BED FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 361,224, dated April 12, 1887.

Application filed September 1, 1886. Serial No. 212,392: (No model.) Patented in Germany November 26, 1885, No. 36,410; in France February 8, 1886, No. 174,015, and in England July 9, 1886, No. 9,000.

To all whom it may concern:

Be it known that I, EDGAR KÖNIG, a subject of the King of Bavaria, and residing at Kloster-Oberzell, near Würzburg, in the Kingdom of Bavaria, German Empire, have invented new and useful Improvements in Type-Beds for Printing-Machines, (for which Letters Patent have been granted in Germany, No. 36,410, dated November 26, 1885; in France, No. 174,015, dated February 8, 1886, and in Great Britain, No. 9,000, dated July 9, 1886,) and whereof the following is a specification.

My invention relates to the type-cylinders of rotating printing-presses, and more especially to type beds of such cylinders which are provided with column-rules having flanges at their base, and column bottom plates having grooves or rabbets to engage the said flanges; and the object of the invention is to furnish means for allowing stereotype-blocks extending from one column into the other to be inserted into the composition of type, and for securing the said blocks in their places by means of the said rules. For this purpose the rim of the type-bed is provided with slits, through which the column-rules can be withdrawn from between the columns. The type-bed is fitted with extensions forming trays for receiving the portions of the rules that may project from the composition of type, and the rules are provided at one or both ends with projections or tenons adapted to engage with recesses in the stereotype-blocks in view of securing them in their places.

On the annexed two sheets of drawings is represented a type-bed involving my improvements. Figure 1 is a transverse section of a portion thereof; Fig. 2, a plan, and Fig. 3 a longitudinal section on line 1 2 of Fig. 1. The figures 1 and 3 are drawn on double the scale of Fig. 2.

The type-bed *e* is provided with dovetail grooves, into which are slipped the dovetail ledges of the column bottom plates, *q*, the said plates being thus held down upon the bed, while they may be shifted transversely, in order to allow the composition of type to be firmly compressed by means of the wedges *k*, Fig. 1. The plates *q* have at their edges longitudinal grooves or rabbets, which receive the flanged

feet of the column-rules *r*. Into the transverse portions *z* of the rim of the type-bed are cut the slits *b*, Fig. 2, through which the rules *r* may be partly or entirely withdrawn from and introduced between the plates *q* and the composition of type while the form is not tightened up. Moreover, column-rules are provided for that are of various lengths, but shorter than the length a column—say one-half, one-third, and one-quarter of this length. The said arrangement and the short rules allow stereotype-blocks *C*, especially such as are of a width greater than the width of a column, to be so inserted into the composition of type as to extend from one column, for instance, *S'*, into the other one, *S''*. The operation required for this purpose consists in, first, slipping in between the plates *q* of the columns *S'* and *S''* a rule having a length equal to the desired distance of the block *C* from the foot or the head of the column, (as the case may be,) thereupon putting the block into its place, and, finally, sliding another short rule from the end of the frame against the block.

Considering that if the sizes of the short rules are not to be varied to an inconvenient degree, a portion of the second or outer short rule will ordinarily project from the form, and, as this projecting portion would be apt to be damaged and to cause inconvenience, the type-bed is made with an extension, *W*, forming a tray adapted to receive and protect the said projecting portions.

In order to secure the stereotype-blocks *C* in their place by means of the rules *r*, the latter are provided with projections or tenons *r'*, Fig. 3, and the blocks with holes or recesses corresponding to the said projections or tenons, so that if the rules and the block are pushed fairly together the projections or tenons of the rules will enter into the holes or recesses of the block and prevent the same from rising above the face of the type.

I claim as my invention—

1. The combination, with a type-bed having a rim, *z*, with slits *b*, and column bottom plates, *q*, provided at their longitudinal edges with grooves or rabbets, of column-rules *r*, having flanges adapted to slide in the said grooves or rabbets, and the stereotype-blocks *C*, inserted

between the ends of two rules, r , substantially as and for the purpose described.

2. The combination, with a type-bed having a rim, z , with slits b , and column bottom plates, 5 q , provided at their longitudinal edges with grooves or rabbets, of column-rules r , having flanges adapted to slide in the said grooves or rabbets, and projections r' , and stereotype-blocks C , provided with recesses engaging the 10 said projections r' , substantially as and for the purpose specified.

3. The combination, with column bottom plates, q , provided at their longitudinal edges

with grooves or rabbets, and column-rules r , having flanges adapted to slide in the said 15 grooves or rabbets, of a type-bed having the rim z , with slits b , and the extension W , substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing wit- 20 nesses.

EDGAR KÖNIG.

Witnesses:

HENRY SPRINGMANN,
B. ROl.