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ALIGNING MEANS FOR LINE BY LINE COMPOSING MACHINES

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Fig.1.

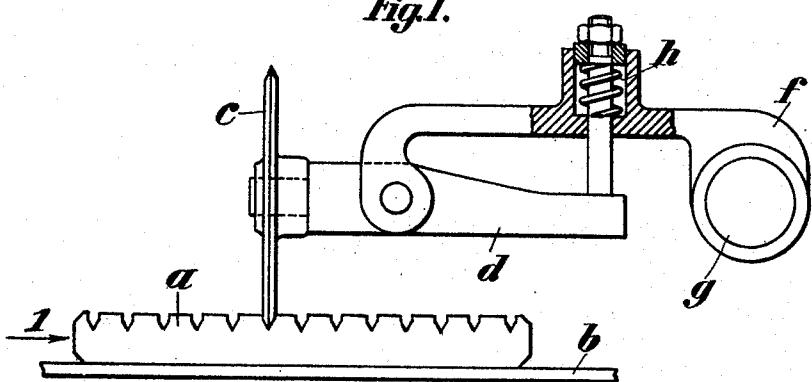


Fig.2.

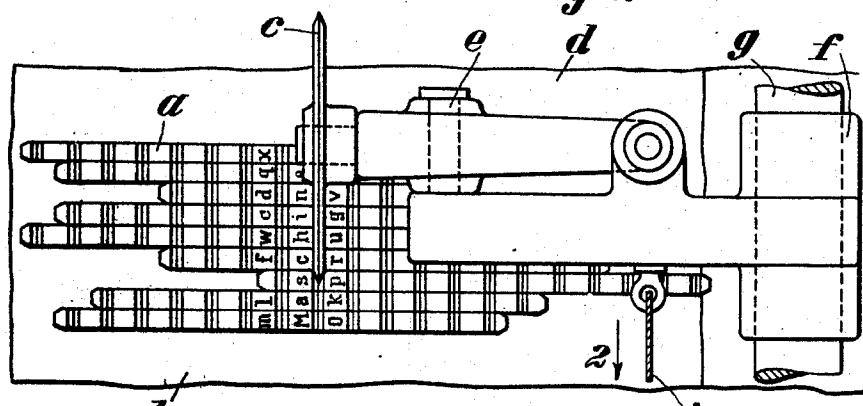
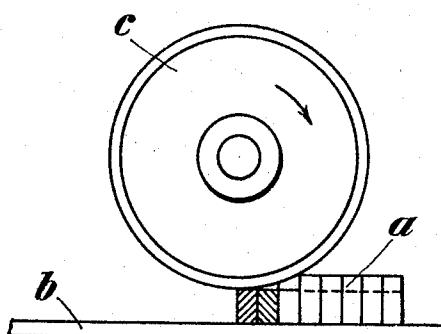


Fig.3.



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ARNOLD AUGUST EGLI, OF KLEIN GUEMMENEN, SWITZERLAND, ASSIGNOR TO THE FIRM POLYGRAPHISCHE GESELLSCHAFT, OF LAUPEN-BERN, SWITZERLAND.

ALIGNING MEANS FOR LINE-BY-LINE COMPOSING MACHINES.

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To all whom it may concern:

Be it known that I, ARNOLD AUGUST EGLI, residing at Klein Guemmenen, Switzerland, have invented certain new and useful Improvements in and Relating to Aligning Means for Line-by-Line Composing Machines, of which the following is a specification.

This invention relates to a machine for composing lines of type and more particularly to such machines, in which movable type carriers are used for being composed. Preferably the type carriers may be longitudinally movable. The object of the invention is to align the lines of type by means of an aligning member or roll, which is adapted to travel past notches in the type carriers. The notches in the type carriers or type bars are preferably wedge shaped and also the aligning member or roll has a wedge shaped projection or edge. The notches are preferably arranged at that side of the type carriers or type bars, which support the letters, signs or members.

The aligning member may be arranged on a slide which is adapted to be moved parallel to the direction of the line to be aligned. In a preferred construction the aligning member may be arranged on a two-armed lever, turnably supported by the slide and being with one arm under the action of a spring, which may be adjustably arranged on the said slide.

The invention is shown by way of example in the drawing in which—

Fig. 1 is a side elevation,

Fig. 2 a plan view and

Fig. 3 side view rectangular to the view of Fig. 1.

In the drawing *a* is a typebar, *b* a table, on which a plurality of typebars is arranged side by side. *c* shows a wheel rotatably supported by a two-armed lever *d*. The right hand end of this lever bears against a pin, which is under the action of the spring *h*. The slide *f* is supported by a rod *g*. *i* is a rope by means of which the slide may be drawn in the direction of the arrow 2. The typebars *a* show wedge-shaped notches and the edge of the wheel *c* is also wedge-shaped. The notches are arranged between each two types in the typebars. The arrow 1 shows the direction, in which the typebars may be slid out of magazines onto the table *b*. In drawing the wheel by means of

the rope *i* and the slide *f* over a row of typebars the set line is exactly aligned.

By providing an aligning wheel according to the present invention, the pressure on the typebars can be made very small. 60 Also it is possible to form the typebars plane on their underside i. e. without notches, so that the pressure of the platen onto the line makes no undesired effect on such typebars, as would be possible, when the undersides 65 of the typebars show notches.

It is obvious, that the aligning wheel also may be provided in machines, in which lines of type are written by means of type-wheels or machines comprising type carriers each supporting a single type or in line composing machines comprising type carriers or matrix typebars with one or a plurality of types or it may be also used in combination with flat types or prototypes in photographic line-by-line setting machines or in other similar machines. 75

Claims:

1. In a machine for composing lines of type, movable typecarriers, notches in the typecarriers, and means adapted to align the said typecarriers and to travel past the said notches. 80

2. In a machine for composing lines of type, movable typecarriers, notches in the typecarriers, and a roll adapted to align the said typecarriers and to travel past the said notches. 85

3. In a machine for composing lines of type, movable typecarriers, wedge-shaped notches in the typecarriers, and means adapted to align the said typecarriers and to travel past the said notches. 90

4. In a machine for composing lines of type, movable typebars, each with a plurality of letters, signs or numbers, and having notches in that side of the said typebars carrying the letters, signs or numbers, and means adapted to align the said typebars and to travel past the said notches. 95

5. In a machine for composing lines of type, movable typecarriers provided with notches, a slide, and on the said slide aligning means adapted to align the said typecarriers and to travel past the said notches parallel to the direction of the line to be aligned. 100

6. In a machine for composing lines of type, movable typecarriers provided with notches, a slide, and on the said slide an 110

aligning roll adapted to align the said typecarriers and to travel past the said notches parallel to the direction of the said line to be aligned.

- 8 7. In a machine for composing lines of type, movable typecarriers, notches in the typecarriers, and yielding aligning means adapted to align the said typecarriers and to travel past the said notches.
- 10 8. In a machine for composing lines of type, movable typecarriers provided with notches, aligning means adapted to be moved parallel to the direction of the line to be aligned, a slide, and a turnable lever on the 15 said slide adapted to carry the said aligning means.
- 9. In a machine for composing lines of type, movable typecarriers provided with notches, aligning means adapted to be moved 20 parallel to the direction of the line to be aligned, a slide, on the said slide a turnable two-armed lever adapted to carry the said

aligning means, and a spring adapted to act on one arm of the said lever.

10. In a machine for composing lines of type, longitudinally movable typebars, each with a plurality of letters, signs or members, notches in the typebars, and means adapted to align the said typebars and to travel past the said notches. 30

11. In a machine for composing lines of type, movable typecarriers, notches in the typecarrying side of the typecarriers, and means adapted to align the said typecarriers and to travel past the said notches. 35

12. In a machine for composing lines of type, movable typecarriers, notches between each two types of the typecarriers, and means adapted to align the said typecarriers and to travel past the said notches. 40

In testimony whereof I have affixed my signature.

ARNOLD AUGUST EGLI.