

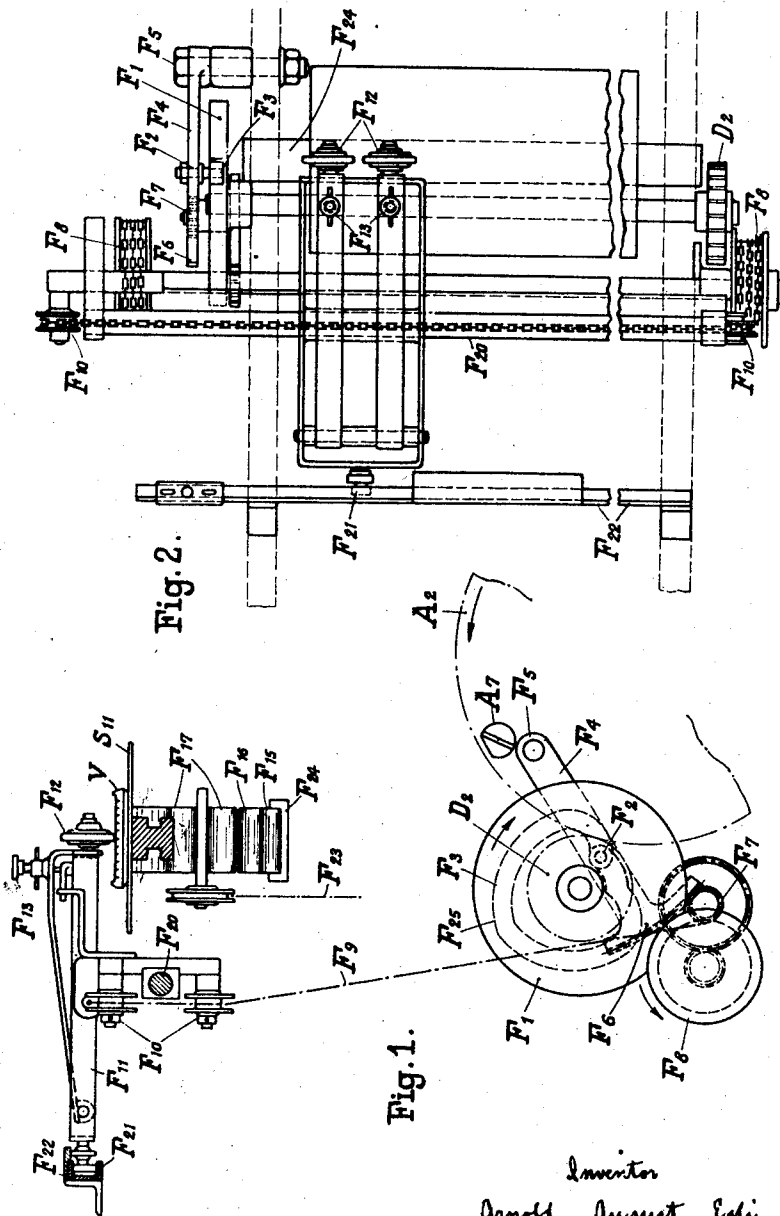
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INKING ARRANGEMENT FOR LINE BY LINE WRITING MACHINES

Original Filed March 29, 1923 2 Sheets-Sheet 1



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 by Knight Bros. Attorneys

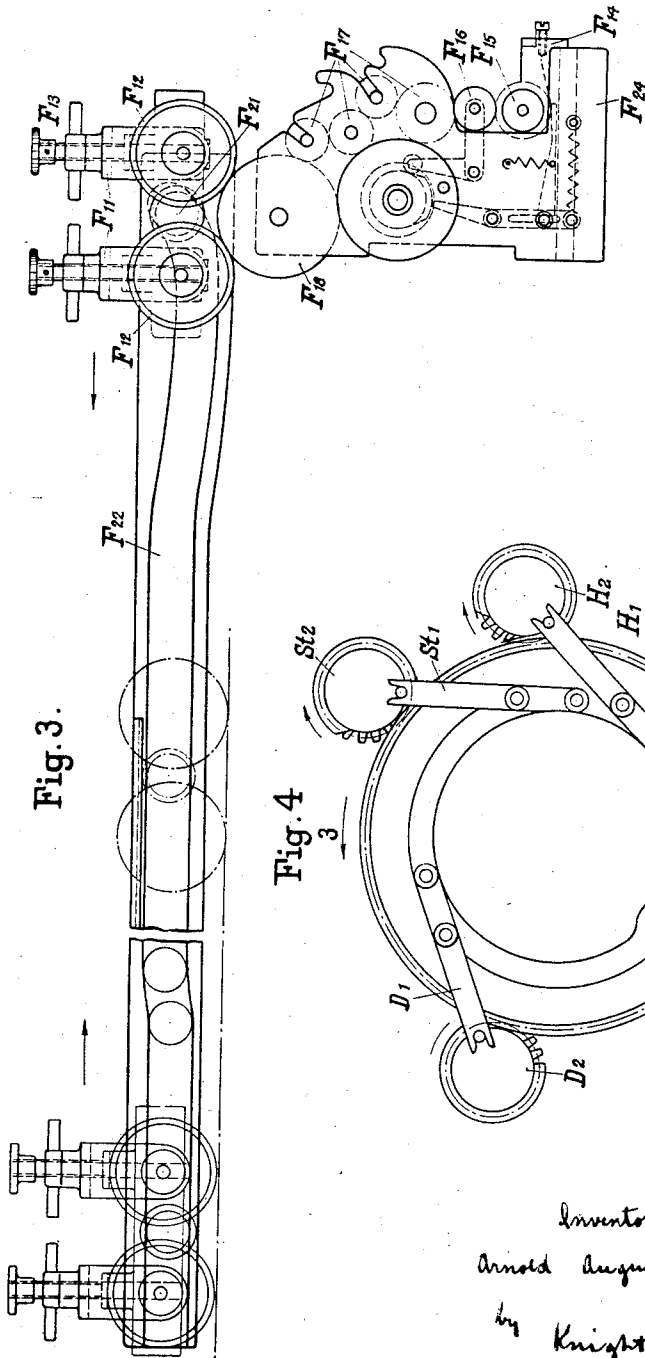
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UNITED STATES PATENT OFFICE.

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INKING ARRANGEMENT FOR LINE-BY-LINE WRITING MACHINES.

Original application filed March 29, 1923, Serial No. 628,514, and in Great Britain April 4, 1923. Divided and this application filed June 9, 1926. Serial No. 114,783.

This invention relates to an inking arrangement for line by line writing machines and consists more particularly therein, that an inking roller is adapted to be detached from a motor driven ink applying means in a suitable way. This application is a divisional application of Ser. No. 628,514, filed by the applicant on March 29, 1923. With the above and other objects in view as will be hereinafter apparent, this invention consists in the construction, combination, and arrangement of parts, all as hereinafter more fully described, claimed and illustrated in the accompanying drawings:

Fig. 1 shows a side elevation of a part of an inking device for inking a set line of type.

Fig. 2 a plan of the same device and

Fig. 3 a front view of the same device on an enlarged scale,

Fig. 4 a detail of the main drive.

Referring to the drawings V indicates a row of type bars brought in a known manner in such relation to each other that a desired line of type is formed. The type bars are carried by a table S¹¹ and locked on this table in an adjusted situation. For inking the set up line of type the following arrangement is provided:

A² shows a toothed wheel rotating once for each printing operation. This wheel is adapted to mesh with a toothed wheel D². This wheel D² is devoid of teeth at a part of its circumference and adapted to be swung in a known manner by the lever D¹ when the wheel A² and the cam groove A⁶ are in the corresponding position. As soon as the wheel D² is brought into mesh with the main control wheel A² the cam disk F¹ is rotated and a roll F² engaging with a cam groove F³ in the cam disk imparts motion to a lever F⁴ pivoted at F⁵. The free end of the lever F⁴ carries a toothed segment F⁶ which transmits motion through a wheel F⁷ provided with two rings of teeth to a roll or drum F⁸. Wound upon the drum F⁸ is a flexible member or chain F⁹ which passes over guide rollers F¹⁰ and is connected to a carriage F¹¹ guided by a guide bar F²⁰; the chain F⁹ moves the carriage F¹¹ to and fro periodically over the set lines of types V. Mounted on the carriage F¹¹ are inking rollers F¹² which can be raised or lowered by adjusting

screws F¹³. The ink is taken from an ink applicer consisting of an ink well F²⁴ from which the ink is taken by an ink dispenser F¹⁴ which transfers the ink to a roller F¹⁵. F¹⁶ is an ink transferring member that transfers the ink to ink spreaders F¹⁷ and finally to an inking cylinder F¹⁸. The mechanism associated with the ink well is driven directly by the motor through a belt F²³ so that this mechanism also operates during the time that the main control wheel A² is stationary. The cylinders F¹⁸ transfer the ink to the inking rollers F¹² that are guided by the carriage F¹¹ in the direction of the set line of type over the typebars. The carriage F¹¹ is pivotally mounted upon the guide bar F²⁰ (see Figure 1) and can therefore rock transversely to its direction of motion on its guide bar F²⁰ and its rear end is guided by a roller F²¹ in a grooved bar F²², the groove of which, as shown in Fig. 3, has such a form, that the carriage, when being moved along the groove will be rocked by means of the roller F²¹, engaging said groove, so that the rollers will be guided over the set up line and lifted at the end of the line so as to come free of it. A machine, in which the device may be used, is shown more especially, f. e. in Letters Patent 1,466,491, dated August 28, 1923.

I claim:—

1. In a writing machine of the character described the combination of an inking roller, a rockable slide supporting said roller, a guideway for said slide, an ink applicer, and a raceway arranged to rock said slide into a position of disengagement from said ink applicer and to apply pressure to said roller in its operative position.

2. In a writing machine of the character described the combination of an inking roller, and a rockable slide supporting said roller, with a guideway for guiding said slide, and a raceway for rocking said slide and applying pressure to said roller, said inking roller being adjustably mounted upon said slide relatively to its line of action.

3. In a writing machine of the character described the combination of an inking device, a slide supporting the inking device, a guideway for guiding said slide with said inking device in operation, a cam operative lever for moving said slide to and fro, a drum, a rack on said lever for rotating said

drum, and a flexible member connected to said slide and wound upon said drum.

4. In a writing machine of the character described, type carriers adapted to form each time a single line of types, an inking roller, means for guiding said roller over said line of type in the direction of the line of type, and motor driven ink grinding rollers adapted to apply ink to said inking roller, said inking roller being detachable from the ink grinding means.

5. In a writing machine of the character described, type carriers adapted to form each time a single line of types, an inking roller, a slide supporting said roller, operating means for guiding said roller along said line, in the direction of the line of type, a guiding slideway adapted to engage said slide and to bring the said roller in contact with the said line, and motor driven ink grinding rollers located at one end of said slideway for applying ink to said inking roller.

6. In a writing machine of the character described, type carriers adapted to form each time a single line of types and motor driven ink grinding rollers with a travelling inking roller adapted to be detached from said ink grinding rollers and to be guided over the

said set line of types in the direction of the line of types.

7. In a writing machine of the character described, type carriers adapted to form each time a single line of types, an inking device, a slide supporting the inking device, a guideway for guiding the slide with the inking device in operation, means for guiding said device over said line of types, and a cam operative lever for moving said slide.

8. In a writing machine of the character described, type carriers adapted to form each time a single line of types, an inking device, a slide supporting said inking device, the inking device being adapted to be moved over said line of type in the direction of the line of type, and a single guideway in which said slide operates in both directions of its movement.

9. In a writing machine according to claim 5, the guideway consisting of a round guide rod.

10. In a writing machine according to claim 8, the guideway consisting of a round guide rod.

In testimony whereof I have affixed my signature.

ARNOLD AUGUST EGLI.