No. 675,024. Patented May 28, 1901.

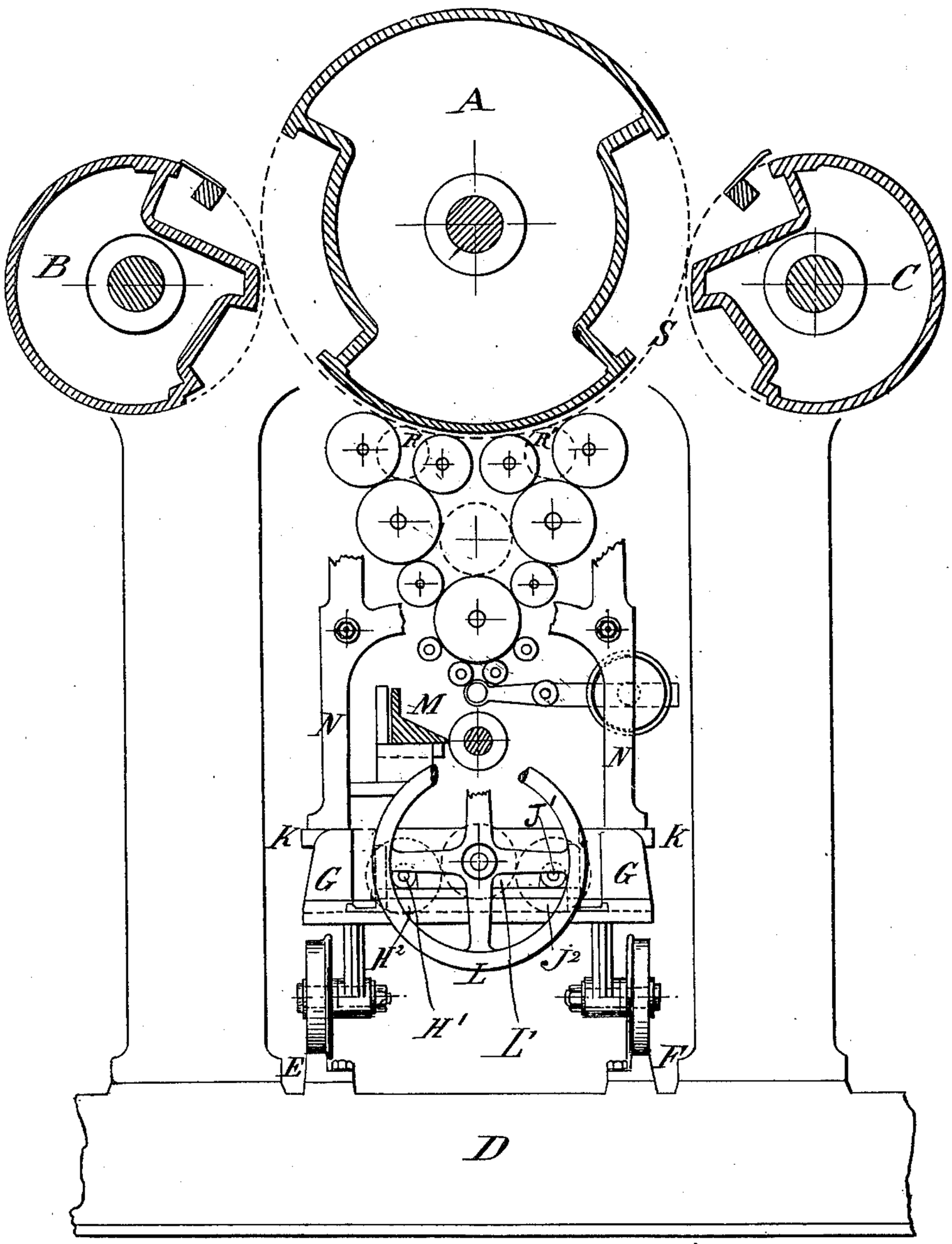
K. SONNTAG.

INKING MECHANISM FOR PRINTING MACHINES.

(Application filed July 25, 1900.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



Witnesses:

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Jacob Heller

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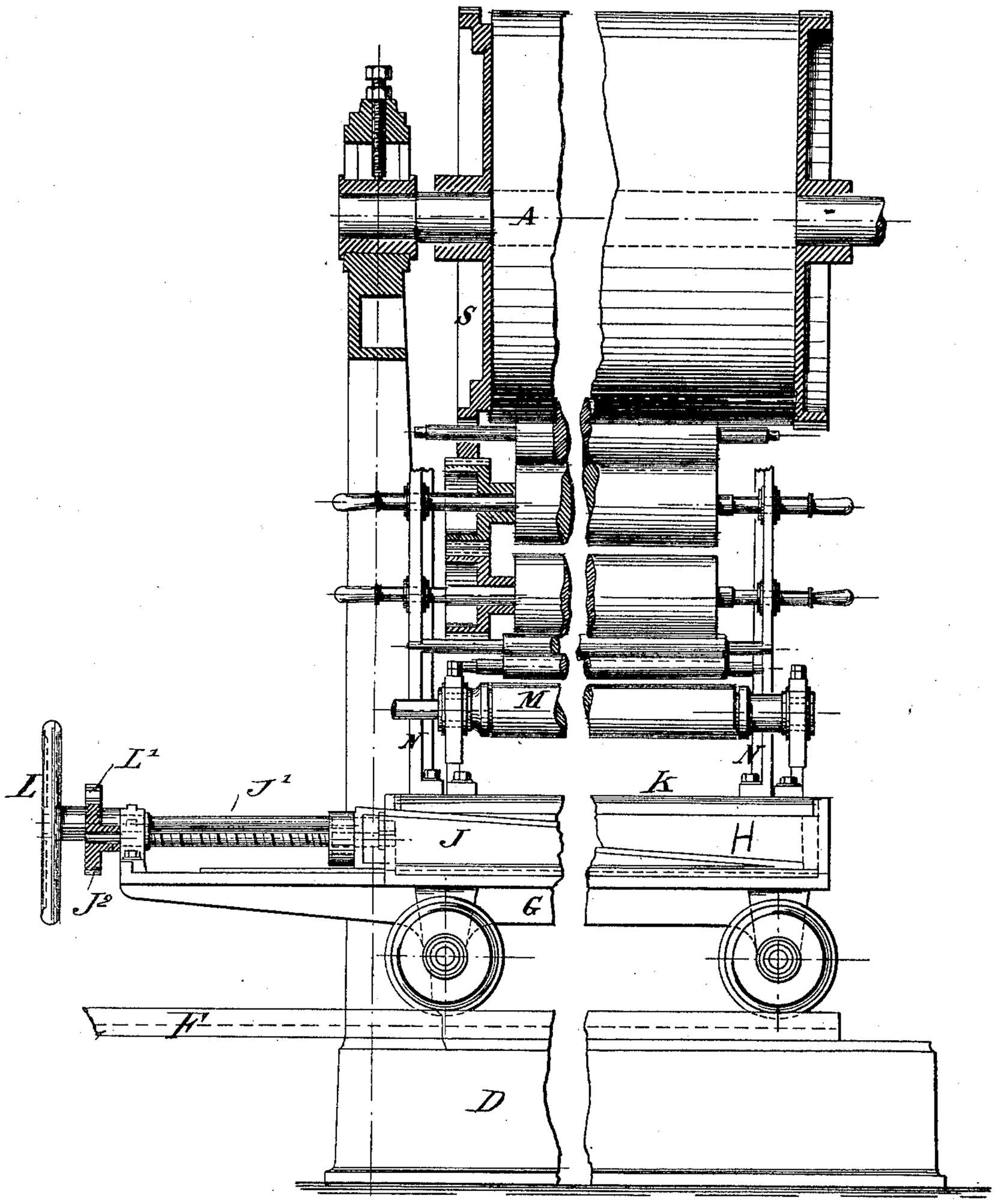
Fig. 2



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UNITED STATES PATENT OFFICE.

KURT SONNTAG, OF LEIPSIC, GERMANY.

INKING MECHANISM FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 675,024, dated May 28, 1901.

Application filed July 25, 1900. Serial No. 24,843. (No model.)

To all whom it may concern:

Be it known that I, KURT SONNTAG, a subject of the German Emperor, and a resident of Leipsic, Germany, have invented certain new and useful Improvements in Inking Mechanism for Printing-Machines, of which the following is a specification.

In the usually-constructed rotary and duplex printing-machines with rocking or oscillating printing-rollers, such as shown, for example, in Letters Patent of the United States granted Julius Wezel on the 29th day of June, 1897, and numbered 585,546, the inking-rollers are mounted above the latter and cover, therefore, the printing-plate, so that said inking-rollers do not permit of easily removing and replacing the printing-plates. I am aware that various devices have been constructed to temporarily disengage the inking-rollers from the printing-roller. However, such devices are not adapted to completely clear the space and give full access to the printing-plates, so that the latter can only be removed and replaced with much trouble and great loss of time. My present invention has for its object to remove these objections, as will be readily understood from the improved construction hereinafter fully described and claimed.

In the accompanying drawings, forming a portion of this specification, Figure 1 is a diagrammatical front elevation, and Fig. 2 is a side elevation, of the improved inking mechanism, in combination with the main printing-rollers of a printing-machine.

Referring by letters to the drawings, A represents the main oscillating or rocking roller of a printing-machine, arranged between the usual printing-rollers B and C.

D indicates the frame of the machine, which is provided with rails E and F, extending on one side beyond the frame, as shown in Fig. 2. Upon these rails is movably arranged the carriage G, carrying two longitudinally-movable wedges H and J, adapted to be moved by actuating the feed-screws J′ and H′. Said wedges support a horizontal plate K, vertically guided in the frame of the machine. It will be seen that by rotating the hand-wheel L the wedges H and J are moved longitudinally through the agency of the gear-wheels L′ H^2 J^2. Secured on the horizontal plate K is a suitable frame N, provided with bearings for all the roller-shafts of the inking system and also for the shafts of the operating gear-wheels R and R′, normally meshing with the toothed rim S on the main rocking roller A. When the plate K is lowered, the whole inking mechanism is also lowered, whereby the gear-wheels R and R′ are brought out of engagement with the toothed rim S of the main roller A, so that the carriage G may now be withdrawn forwardly, together with the inking mechanism, for the purpose of easily cleaning and removing the inking-rollers. When the inking-rollers are cleaned, the carriage G is pushed back into the machine, whereupon the inking mechanism is again raised by feeding the wedges H and J until the upper inking-rollers are brought into contact with the printing-plate and until the gear-wheels R and R′ mesh again with the toothed rim S of the main roller A.

The advantage of the improved construction is that the space above the main rollers is completely cleared, so that the removal of the printing-plates and corrections may be easily and readily effected. The inking mechanism is readily accessible and may be easily adjusted when the supporting-carriage is withdrawn forwardly, as described.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with the frame and main printing-rollers of a printing-machine, of an inking mechanism, embodying a movable carriage running on rails arranged under said main rollers, a vertically-movable plate supported on said carriage, a suitable frame secured on said plate the usual inking-rollers journaled in said frame, and means for vertically adjusting said plate, substantially as and for the purpose set forth.

2. The combination with the frame and main rollers of a printing-machine, of an inking mechanism, embodying rails secured to the frame of the machine under the main rollers thereof, said rails extending laterally beyond the frame of the machine, a suitable carriage adapted to run on said rails, longitudinally-movable wedges on said carriage,

means for moving said wedges in unison, a horizontal plate supported on said wedges and guided vertically in the frame of the machine a suitable frame secured on said horizontal plate, the usual inking-rollers journaled in said frame, and the operating gear-wheels, also journaled in the latter and adapted to mesh with the usual toothed rim of the main roller, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

KURT SONNTAG.

Witnesses:

RUDOLPH FRICKE,

B. H. WARNER, Jr.