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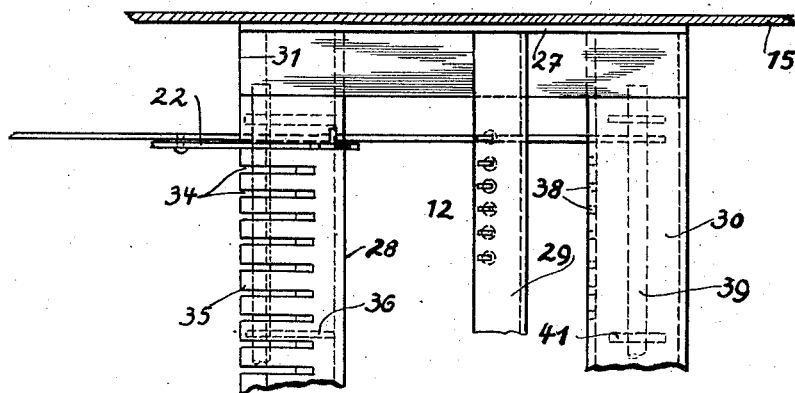
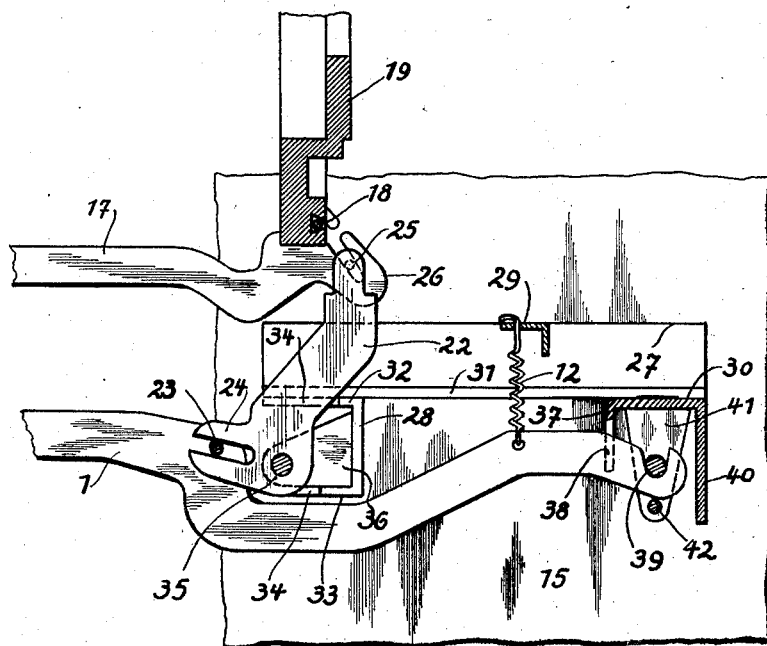
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KEY MECHANISM FOR TYPEWRITING MACHINES

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**Fig. 1**



**Fig. 2**

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# UNITED STATES PATENT OFFICE.

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## KEY MECHANISM FOR TYPEWRITING MACHINES.

Original application filed April 20, 1923, Serial No. 633,499, and in Germany September 1, 1922. Divided and this application filed December 2, 1925. Serial No. 72,320.

This invention relates to a key lever support for typewriting machines in which, the intermediate levers and key levers are guided in U-shaped and angular slotted sheet-metal members which form a sheet metal frame in a manner described and shown in the specification filed with my prior application No. 633,499 filed April 20, 1923 of which this application is a division. In key-mechanism-frames of this known type the axle for the intermediate levers is rigidly inserted between the two faces of the arms or the U-shaped member, the axle for the key levers continuing freely so that this axle can easily bend and oscillate. This invention has for its object a new construction of the key mechanism-frame, according to which the axles are held as much as possible free from oscillations. The frame according to the invention consists of two slotted sheet metal members of U-shaped cross section, the webs of which members have bearing plates for holding the axles for the intermediate levers and key levers, said bearing plates being arranged at convenient distances apart, the two sheet metal members being connected at the ends the one with the other by short transverse angle irons. In this manner a simple key-mechanism frame is produced which is cheap to manufacture and in which the entire key mechanism is mounted so that all the elements as a whole can be easily inserted into the machine.

In the accompanying drawing the invention is illustrated.

Fig. 1 shows the key mechanism frame in cross section.

Fig. 2 shows a plan view of a portion of this frame.

The key mechanism consists of the key levers 1 of usual type, of the intermediate levers 22 and of the type levers 17. The key levers 1 are connected with the intermediate levers 22 by means of studs 23 of the key levers engaging each with a fork-shaped guide 24 of the corresponding intermediate lever 22. The intermediate levers 22 are connected with a type lever 17 by

means of studs 25 of the intermediate levers on which the hook-shaped ends 26 of the type levers are hooked. The type levers 17 are mounted by means of hooks in the well known manner on the curved axle 18 of the type lever segment 19.

A frame fixed between the two side walls 15 of the machine frame is composed of two angle irons 27 and of sheet metal bearers 28, 29 and 30. The bearer 28 is fixed on the flanges 31 of the angle iron 27 and it consists of a sheet metal member of U-shaped cross section. The two arms 32 and 33 of the U-shaped member 28 have slits 34 designed to guide the intermediate levers 22. These intermediate levers 22 are pivotally mounted on an axle or rod 35 mounted in cheeks 36 riveted on the web of the U-shaped member 28. The bearer 29 is of angular cross section and serves for the attachment of the pull springs 12 for the key levers 1. The member 30 is also of U-shaped cross section and its web is fixed on the flanges 31 of the angle irons 27. The arm 37 of the U-shaped member 30 situated on the front has slits 38 for guiding the rear ends of the key levers 1. The rear ends of the key levers 1 are hook-shaped in the well known manner and hooked from below on a rod 39 mounted in cheeks 41 riveted between the arms 37 and 40 on the web of the U-shaped member 30. A rod 42 serves for preventing the key levers 1 from dropping off the rod 39.

This mounting and guiding of the key- and intermediate levers in U-shaped sheet metal members is specially adapted, as all the parts are made by stamping, for cheap but accurate manufacture on a large scale particularly as no milling work is required and as the parts can be put together by unskilled workmen.

I claim:—

A key lever support for typewriting machines comprising in combination with the intermediate levers, with the key levers and with the axles for said levers, a frame composed of two sheet metal members of U-

shaped cross section and of two cross members the two arms of each U-shaped member being spaced widely and the forward one of said members having longitudinal 5 slits for guiding the intermediate levers, and the rearward one of said members having longitudinal slits for guiding said key levers and bearing plates for the axle of the intermediate levers and key levers fixed at convenient distances apart on the webs of 10 the U-shaped members between the arms of said members.

In testimony whereof I affix my signature.  
LUDWIG REISCHL.