

C. W. & G. W. DAVIS.
CARRIAGE STOPS FOR TYPE WRITERS.
APPLICATION FILED MAR. 6, 1911.

1,002,042.

Patented Aug. 29, 1911.

Fig. 1.

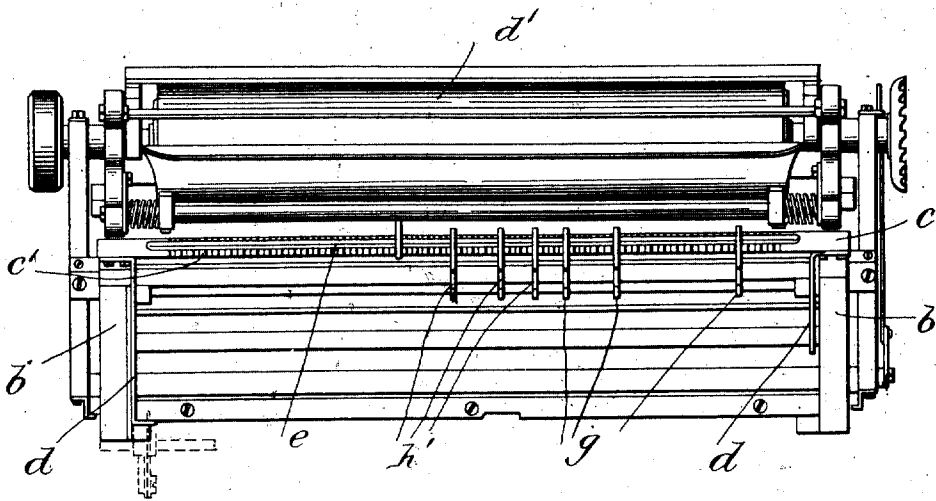


Fig. 2.

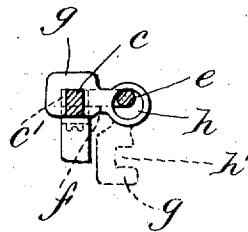
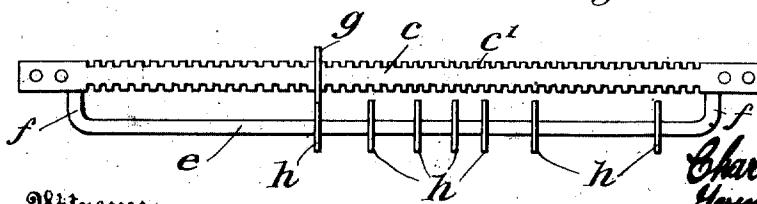


Fig. 3.



Witnesses
Alfred Patchett
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UNITED STATES PATENT OFFICE.

CHARLES WESLEY DAVIS, OF MONTREAL, AND GEORGE WILLIAM DAVIS, OF WESTMOUNT, QUEBEC, CANADA.

CARRIAGE-STOPS FOR TYPE-WRITERS.

1,002,042.

Specification of Letters Patent.

Patented Aug. 29, 1911.

Original application filed November 9, 1908, Serial No. 461,840. Divided and this application filed March 6, 1911. Serial No. 612,533.

To all whom it may concern:

Be it known that we, CHARLES WESLEY DAVIS, of the city of Montreal, and GEORGE WILLIAM DAVIS, of Westmount, both in the Province of Quebec, Canada, have invented certain new and useful Improvements in Carriage-Stops for Type-Writers; and we do hereby declare that the following is a full, clear, and exact description of the same.

This invention has for its object to provide for typewriting machines adjustable tabulator stops adapted to be completely disengaged from the tabulator bar and assume a position conveniently near the latter where they are always available and out of the way of the working parts of the typewriting machine. For full comprehension, however of our invention reference must be had to the accompanying drawing forming a part of this specification, in which similar reference characters indicate the same parts and wherein—

Figure 1 is a rear view of the carriage and carriage frame illustrating the new tabulator stops and their carrier; and Fig. 2 is a detail transverse sectional view of the tabulator bar and the means for connecting the tabulator stops thereto. Fig. 3 is a plan view illustrating particularly the connection between the stop carrying bar and the tabulator bar.

This invention relates to typewriters of that type covered by United States patent application filed November 9, 1908 Serial No. 461840 of which this is a divisional part.

The carriage supporting frame is indicated at *b*, the tabulator bar at *c*, the supports for the latter at *d*, and the platen at *d'*. The tabulator bar is toothed on its front and rear sides as at *e'* and carries a rod *e* extending parallel to and a short distance from the rear of the tabulator bar to within a short distance of the opposite ends of the latter where it is rigidly supported by means of arms *f*, formed by bending the opposite ends of the bar at right angles to itself, and inserting the same in the tabulator bar, the said rod *e* being of greater length than the scale on such tabulator bar. Carried loosely by the bar *e* are a number of stops *g* each fastened at one end to the rod by means of an enlarged eye *h* and having

one edge recessed as at *h'* at its opposite end to engage between the teeth of the tabulator bar and project therefrom in the path of the carriage stop, the rod *e* serving as a guide-rod for the stops when it is desired to disengage them from and move them longitudinally of the tabulator bar. The eyes of these stops *g* are of sufficiently larger diameter than the guide-rod *e*, to enable them to be moved laterally with relation to the said bar, readily set in place on the tabulator bar, removed therefrom and shifted along the bar to different positions with relation to the tabulator bar. The advantage of thus attaching the stops adjacent to the tabulator bar being that the stops are prevented from becoming lost and are always available, being suspended from the guide-bar *e* at the rear of the machine and out of the way of the working parts of the latter.

What we claim is as follows:—

1. In a typewriter the combination with tabulator mechanism including tabulator stops,—of a stop carrying bar parallel to the tabulator bar and having the tabulator stops suspended therefrom, the stops being each formed with an eye encircling the stop carrying bar, such eye being of greater extent than the diameter of the stop carrying bar so as to permit the stop to be moved laterally with relation to the stop carrying bar, engaged with and disengaged from the tabulator bar while still connected to the stop carrying bar.

2. In a typewriter the combination with tabulator mechanism including tabulator stops, of a stop carrying bar parallel to the tabulator bar and having the tabulator stops suspended therefrom, such stops being each formed with an eye of sufficient diameter to permit the stop to be moved laterally with relation to the stop carrying bar, engaged and disengaged from the tabulator bar while still connected to the stop carrying bar; arms formed with the stop carrying bar and having their ends inserted in the tabulator bar.

3. In a typewriter the combination with tabulator mechanism including tabulator stops, of a stop carrying bar parallel to the tabulator bar and having the tabulator stops suspended therefrom, such stops being each formed with an eye of sufficient diameter to permit the stop to be moved laterally with

relation to the stop carrying bar, engaged and disconnected from the tabulator bar while still connected to the stop carrying bar, arms formed integrally with and at right angles to the carrying bar by means of which it is rigidly supported by and spaced from the said tabulator bar.

4. In a typewriter, the combination with tabulator mechanism including tabulator stops *g*, of a stop carrying bar *e* parallel to the tabulator bar and having the tabulator stops suspended therefrom, such stops having eyes *h* of sufficiently larger diameter than the bar *e* to enable them to be moved laterally with relation to the said bar, engaged with and disengaged from the tabulator bar while still connected to the stop

carrying bar, arms *f* formed by bending the opposite ends of the bar *e* at right angles to itself and having the ends of the said arms inserted in the tabulator bar from the rear side and near the opposite ends thereof by means of which the carrying bar is spaced from and rigidly supported by the tabulator bar.

In testimony whereof, we have signed our names to this specification, in the presence of two subscribing witnesses.

CHARLES WESLEY DAVIS.
GEORGE WILLIAM DAVIS.

Witnesses:

CHAS. F. DICKERSON,
GEO. F. ROCKWELL.