

A. ZEH, G. P. LIVINGSTON & P. V. W. CULLINGS.

Slides for Extension-Tables.

No. 143,554.

Patented Oct. 7, 1873.

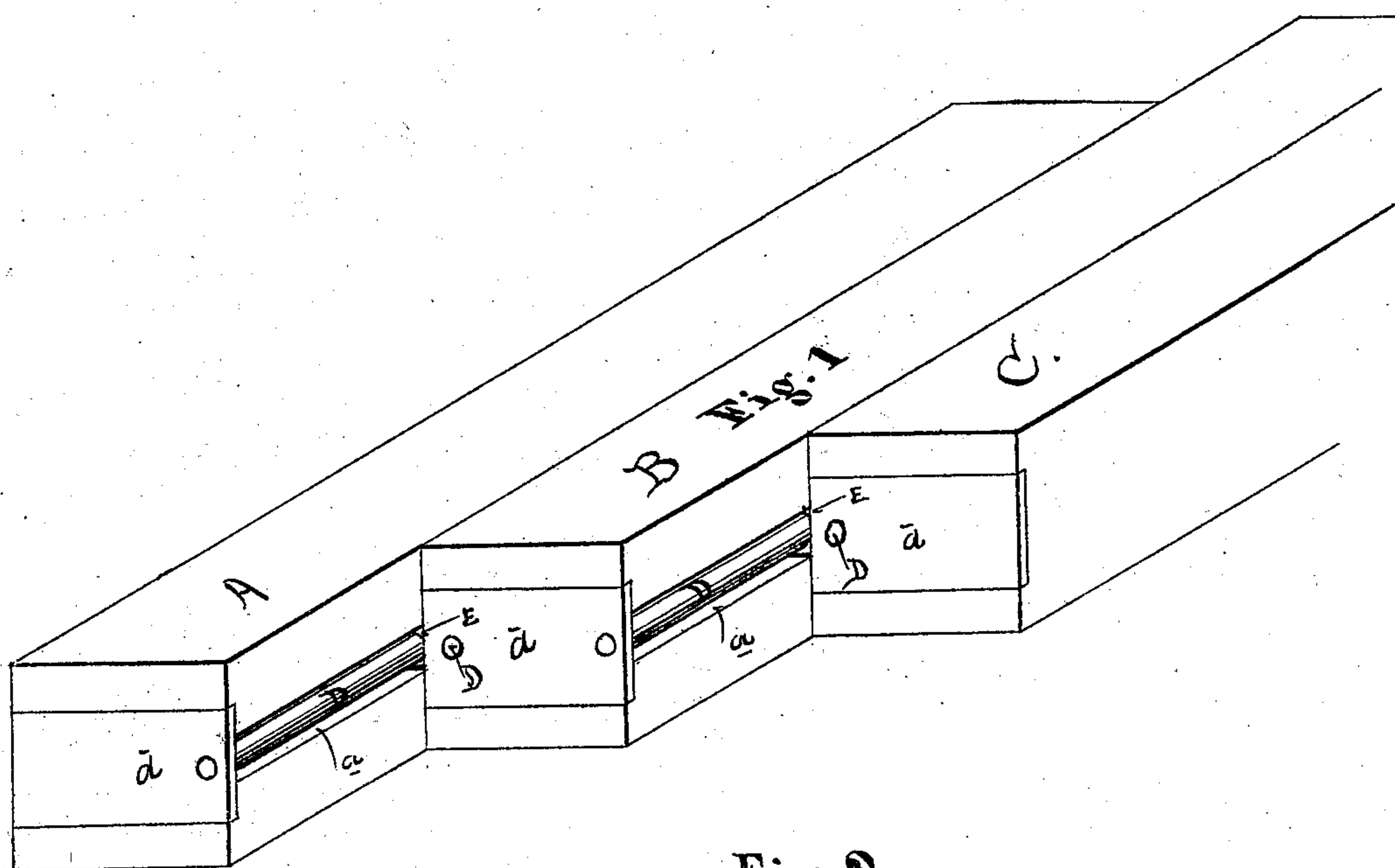


Fig. 2.

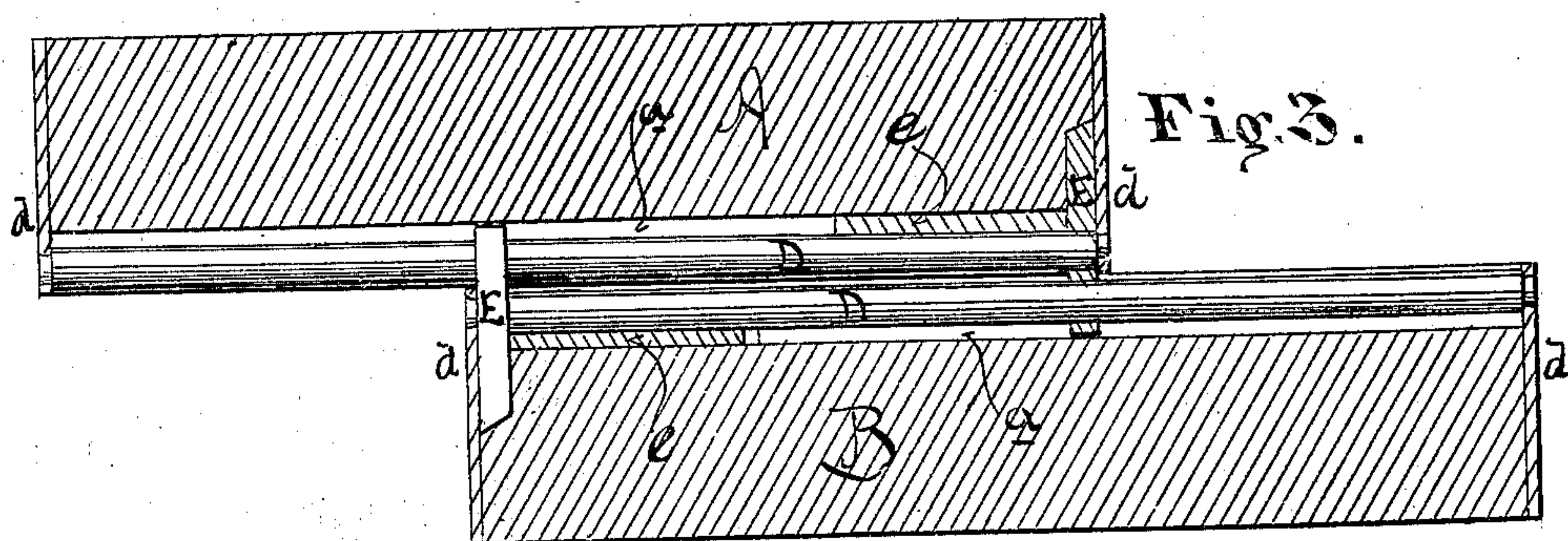
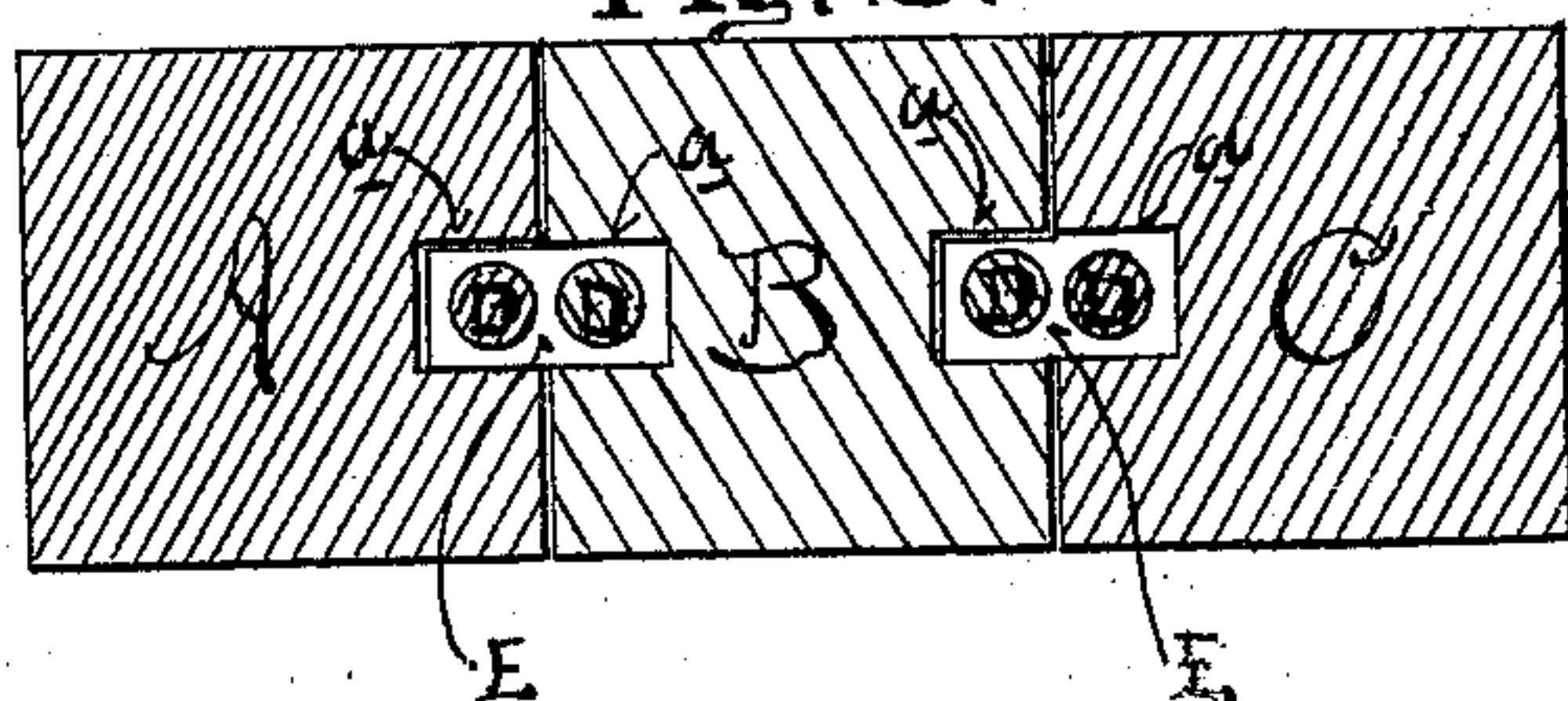


Fig. 3.

Witnesses
J. S. Brown.
E. M. Gallaher.

Inventor.
Alfred Zeh
Geo. P. Livingston
Peter V. W. Cullings
By their atty *R. D. Smith*

UNITED STATES PATENT OFFICE.

ALFRED ZEH, GEORGE P. LIVINGSTON, AND PETER V. W. CULLINGS, OF
GALLUPSVILLE, NEW YORK.

IMPROVEMENT IN SLIDES FOR EXTENSION-TABLES.

Specification forming part of Letters Patent No. 143,554, dated October 7, 1873; application filed
March 21, 1873.

To all whom it may concern:

Be it known that we, ALFRED ZEH, GEO. P. LIVINGSTON, and PETER V. W. CULLINGS, of Gallupsville, in the county of Schoharie and State of New York, have invented a new and useful Improvement in Slides for Extension-Tables, &c.; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of our slide. Fig. 2 is a transverse section, and Fig. 3 is a longitudinal section, of the same.

The object of our invention is to construct our slides with metallic guide-rods laid in the grooves, and metallic nuts to travel on said rods.

A B C are three sliding rails, representing one side of a table-slide. The middle rail, B, has a groove, *a*, cut in each of two of its sides; and the rails A C have one groove each, as shown. Within each of said grooves there is laid an iron guide-rod, D, secured at its ends by metallic caps *d*. One end of each rail is connected to the guide-rod of its opposite rail

by a sliding nut, E, arranged as shown in Fig. 3.

The grooves *a* are cut with parallel sides; and the sliding nuts E are fitted rather loosely in said grooves, so that they have bearing-surfaces therein, and the load upon the table is, in part, sustained by said nuts resting in said grooves.

Wooden blocks *ee*, placed in the grooves beneath the guide-rods, serve as stops to limit the relative movement of the sliding rails.

Having described our invention, what we claim as new is—

The slide-rails A B constructed with grooves *a a*, and the rods D D laid therein, substantially as shown, combined with the sliding nuts E E, each moving on the rod D of the opposite rail, as and for the purpose set forth.

ALFRED ZEH.

GEORGE P. LIVINGSTON.

PETER V. W. CULLINGS.

Witnesses:

PETER FRANK.

CHARLES E. ZEH.