G. HESS.

EXTENSION-TABLE.

No. 190,034. Patented April 24, 1877.

Fig.1.

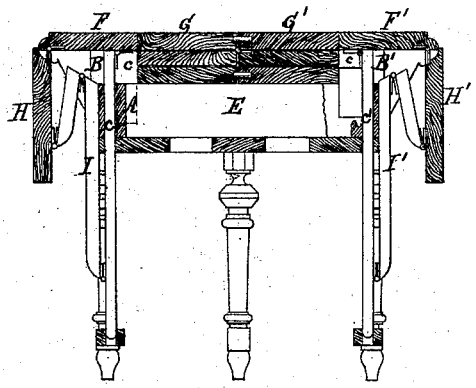


Fig.2.

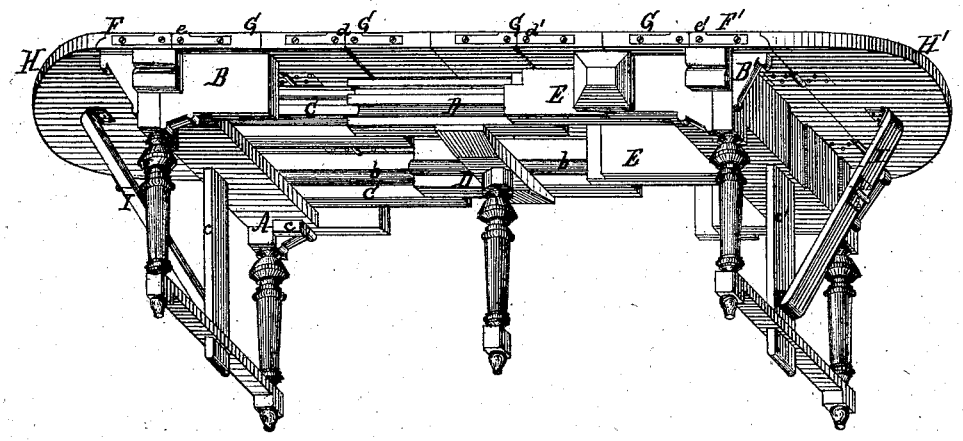
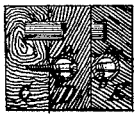


Fig.3.



Witnesses.

Otto Hufeland.

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by

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UNITED STATES PATENT OFFICE.

GEORGE HESS, OF NEW YORK, N. Y.

IMPROVEMENT IN EXTENSION-TABLES.

Specification forming part of Letters Patent No. **190,034**, dated April 24, 1877; application filed March 1, 1877.

To all whom it may concern:

Be it known that I, GEORGE HESS, of the city, county, and State of New York, have invented a new and Improved Extension-Table, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal vertical section of my table when the same is closed up. Fig. 2 is a perspective view of the same when extended. Fig. 3 is a transverse section of the extension-rails.

Similar letters indicate corresponding parts.

This invention consists in the combination, in an extension-table, of rising and falling end sections, and two sets of hinged leaves, each set of leaves being connected to one of the end sections by hinge-joints, so that when the table is extended and the hinged leaves are unfolded, the end sections of the table-top drop down level with the unfolded leaves, and when the leaves are folded up the end sections rise up, and when the table is closed up a level surface is produced. The extension-rails of my table are provided with cylindrical sockets and corresponding cylindrical tongues or guides, the sockets being produced by an ordinary bit or auger, and the cylindrical guides being formed of gas-pipes, so that the construction of the table is considerably simplified and its expense materially reduced.

In the drawing, the letter A designates the frame of my extension-table, said frame being made in two sections, B B′, which are connected by the extension-rails C D E. These rails are fitted together by means of cylindrical sockets *a* and correspondingly cylindrical guides *b*, which fit the sockets, and form the slides for the rails C D E as the table is extended or closed up. The cylindrical sockets are produced by means of an ordinary bit or auger, which is run through the rail close to one of its sides, so that by planing off a small quantity of wood a slot is produced, which leads into the socket, and which allows the rail to be fitted on the cylindrical guide attached to the adjacent rail. The guides *b* are made of ordinary gas-pipes of suitable diameter, which are cut off to the required length and fastened to the sides of the extension-rails by means of screws. By these means much time and labor are saved in the construction of the extension-rails, and the guides *b*, being made of metal, are not liable to swell and to stick fast in their grooves, so that the table can be extended and closed up at all times without difficulty.

The top of my table is composed of two end sections, F F′, and two sets of hinged leaves, G G′. The end sections F F′ are connected to the frame-sections B B′, respectively, by vertical slides *c c′*, which permit said end sections to rise and fall, and to adjust themselves automatically to the position of the hinged leaves. These leaves are connected together by hinge-joints *d d′*, so that they can be folded up to the position shown in Fig. 1, or unfolded to the position shown in Fig. 2. The first leaf of each set is connected to its end section by hinge-joints *e* or *e′*. As the leaves are being folded up, the end sections F F′ rise up automatically, so that when the table is closed up its top presents a level surface, and when the table has been extended and the hinged leaves are unfolded the end sections drop down to a level with the unfolded leaves, and the top of the table presents a level surface. By these means the operation of extending and of closing up the table is materially facilitated.

With the end sections F F′ are combined hinged flaps H H′, which, when turned up to a horizontal position, are retained by toggle-braces I I′, as described in my Patent No. 178,773, dated June 13, 1876.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in an extension-table, of rising and falling end sections F F′ and two sets of hinged leaves, G G′, each set of leaves being connected to one of the end sections by hinge-joints, substantially as and for the purpose herein shown and described.

2. The combination, with the extension-rails C D E, of cylindrical sockets *a* and correspondingly cylindrical guides *b*, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 23d day of February, 1877.

GEORGE HESS. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.