

No. 750,527.

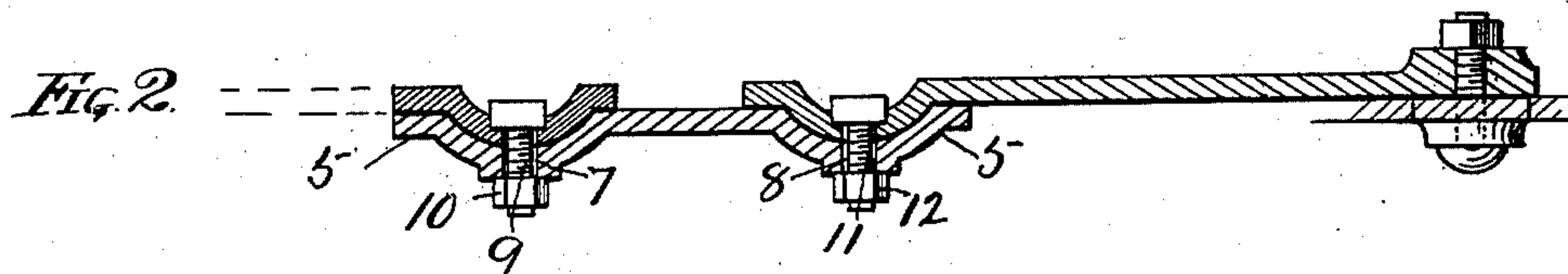
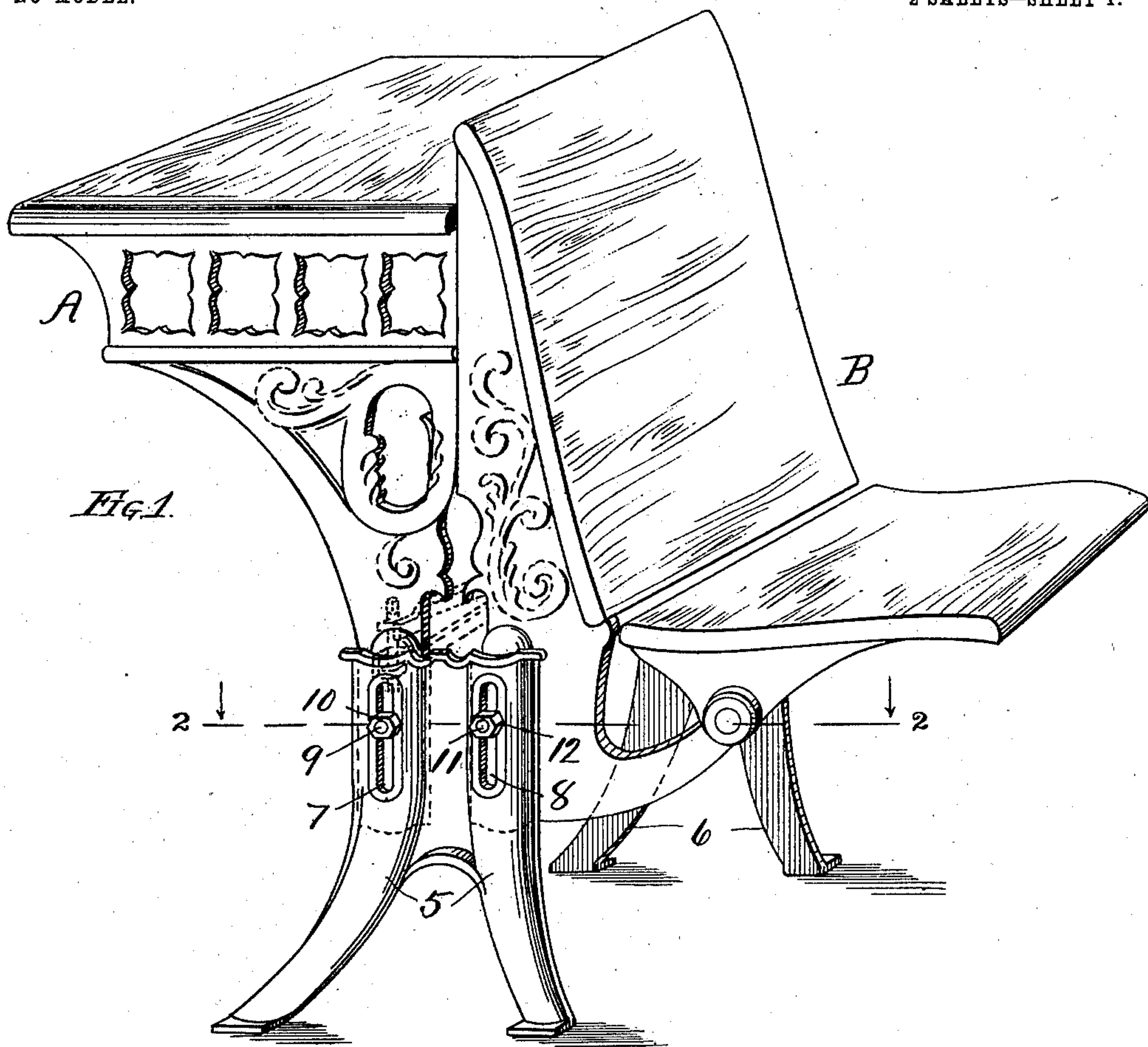
PATENTED JAN. 26, 1904.

J. F. FIELD.
SCHOOL DESK.

APPLICATION FILED APR. 19, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:
F. B. Townsend,
L. M. Freeman.

INVENTOR.
J. F. Field
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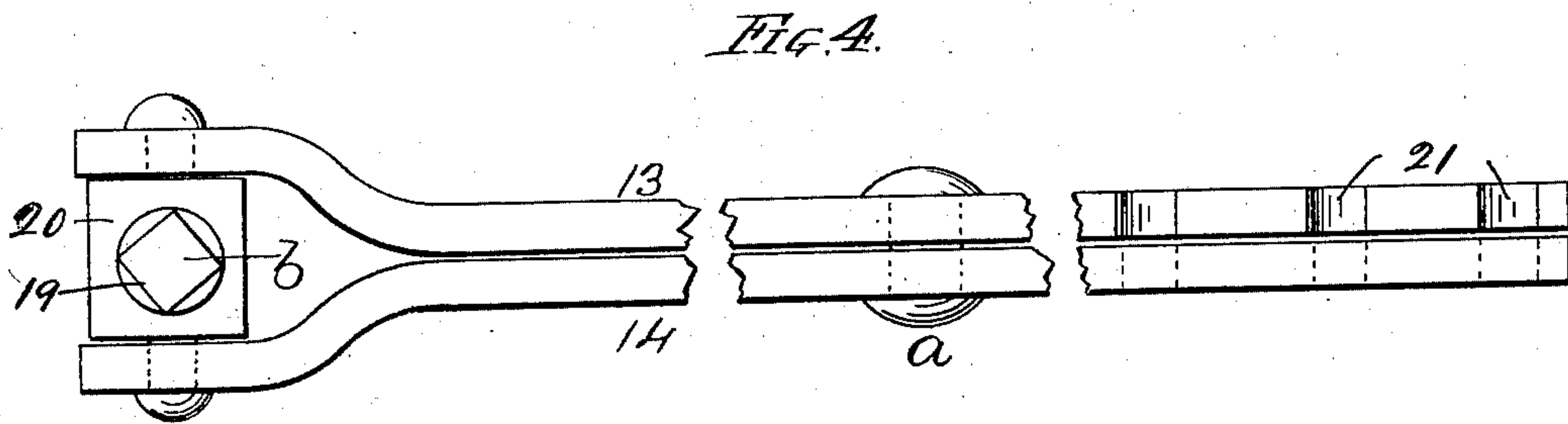
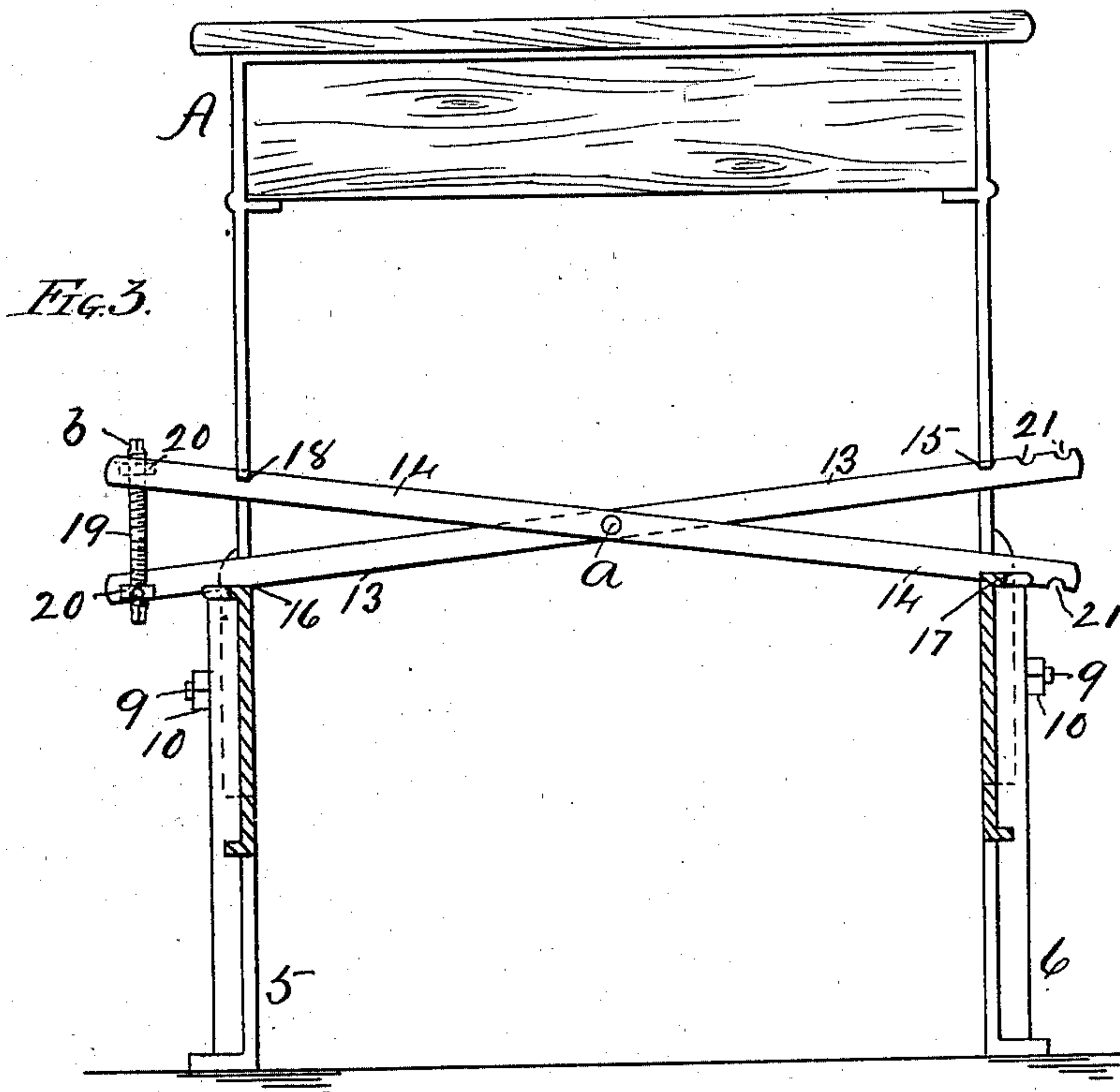
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UNITED STATES PATENT OFFICE.

JOHN F. FIELD, OF CHICAGO, ILLINOIS.

SCHOOL-DESK.

SPECIFICATION forming part of Letters Patent No. 750,527, dated January 26, 1904.

Application filed April 19, 1902. Serial No. 103,708. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. FIELD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented certain new and useful Improvements in School-Desks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

This invention relates to the class of school-desks in which a desk and seat are combined and supported on the same legs or standards and are adapted to have a vertical adjustment
15 with reference to each other in bringing the same to the required elevation for use. Under the ordinary arrangement the combined desk and seat structure is provided with an adjusting device that is a permanent part of
20 such structure, and one must be provided for each combination desk and seat, which adds considerably to the original cost.

The object, therefore, of this invention is to provide a simple independent attachment
25 for lowering or raising the desks and seats and which may be readily attached and detached, so that one device may be used on any number of desks and the possibility of the desks or seats being changed by mischievous
30 scholars entirely avoided.

In the drawings, Figure 1 is a view in perspective of a combination desk and seat structure which embodies the improved features. Fig. 2 is a horizontal section on line 2, Fig.
35 1. Fig. 3 is an elevation and part section on a line dividing the desk and seat looking at the back of the desk, and Fig. 4 is a detached plan of the adjusting attachment.

A represents a desk, and B a seat adjustably
40 combined and which may be of the ordinary construction.

The legs or standards 5 and 6 are adjustably secured to the opposite sides of the structure and are each provided with the vertical slots
45 7 and 8. A clamping-bolt 9 is inserted in the slot 7 and has its inner end fixed in the adjacent part of the desk. A nut 10 has a threaded engagement with the outer end of bolt 9 and serves to lock the bolt at any point within the
50 range of the slot 7 and support the desk at the

required elevation. A companion bolt 11 is inserted through slot 8 and is rigidly secured in the adjacent part of the seat structure. A locking-nut 12 has a threaded engagement with bolt 11 and holds the same in any position to
55 which it may be moved in raising or lowering the seat part. It will be understood that the slots, bolts, and nuts are duplicated in the legs at the opposite side.

The adjusting attachment comprises a pair
60 of levers 13 and 14, pivoted together near their longitudinal center, as at *a*, and have an opening and closing movement at both ends similar to the action of a pair of shears. These levers are shown in their crossed work-
65 ing position in Fig. 3, the inner end of lever 13 loosely engaging a shoulder-bearing 15 and the outer end a shoulder-bearing 16, both forming an integral part of the desk part. The inner end of lever 14 engages the lower
70 shoulder 17 and the outer end the upper shoulder 18. The outer ends of these companion levers are connected by an adjusting screw-rod 19, having a right and left handed thread
75 from the center outward in the direction of each end. The companion nuts 20 are pivotally secured in the respective outer ends of the companion levers. The screw-rod has a threaded engagement with these nuts and
80 opens and closes the levers in accordance with the direction in which the screw-rod is turned. One or both ends of the screw-rod may be provided with a square end *b* to receive a suitable manipulating handle or crank, as the de-
85 vice may be inserted either side up. By turning the screw-rod in one direction the ends of the levers are spread and the desk or seat raised in accordance to which part of the device is attached, and when turned in the op-
90 posite direction the levers are contracted and the desk or seat lowered. The inner ends of the levers are provided with a number of notches 21, which prevent an endwise movement and also adapt the device for use on desks of different widths.
95

It will be noted that this portable device may be slipped in and out of its working position with the greatest facility and but a moment's time is required in changing from one desk to another.

In practical working the device should be first inserted to support the weight of the desk or seat, next the locking-nuts on the clamping-bolts should be loosened, when the desk may
5 be raised or lowered as required and the locking-nuts set up, when the adjusting attachment may be removed for use on other desks as may be required.

Having thus described my invention, what I
10 claim as new, and desire to secure by Letters Patent, is—

1. The combination with a joint school-desk and seat structure, of supporting legs or standards provided with vertical slots and clamping-
15 bolts inserted in said slots and engaging the desk and seat parts and locking the same at any elevation within the range of adjustment, the companion crossed levers having a detachable operative connection in their working
20 position, and means for expanding or contracting said levers in changing the relative elevations of the desk and seat parts, substantially as set forth.

2. A portable attachment for adjusting the

elevation of combination desk and seat struc- 25
tures, comprising a pair of levers pivoted together near their longitudinal center in a crossed position, a screw-rod, and means for securing said screw-rod to the adjacent ends
of said levers, whereby the respective ends of 30
the levers may be expanded or contracted in accordance with the direction in which the screw-rod is turned, substantially as set forth.

3. A school desk and seat adjusting attachment, comprising a pair of levers pivoted to- 35
gether in a crossed position, the threaded nuts, pivotally seated in the outer ends thereof, a screw-rod having a right and left hand thread and engaging said nuts, and means for rotating said rod in spreading or contracting said 40
levers, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN F. FIELD.

Witnesses:

J. B. DONALSON,
L. B. COUPLAND.