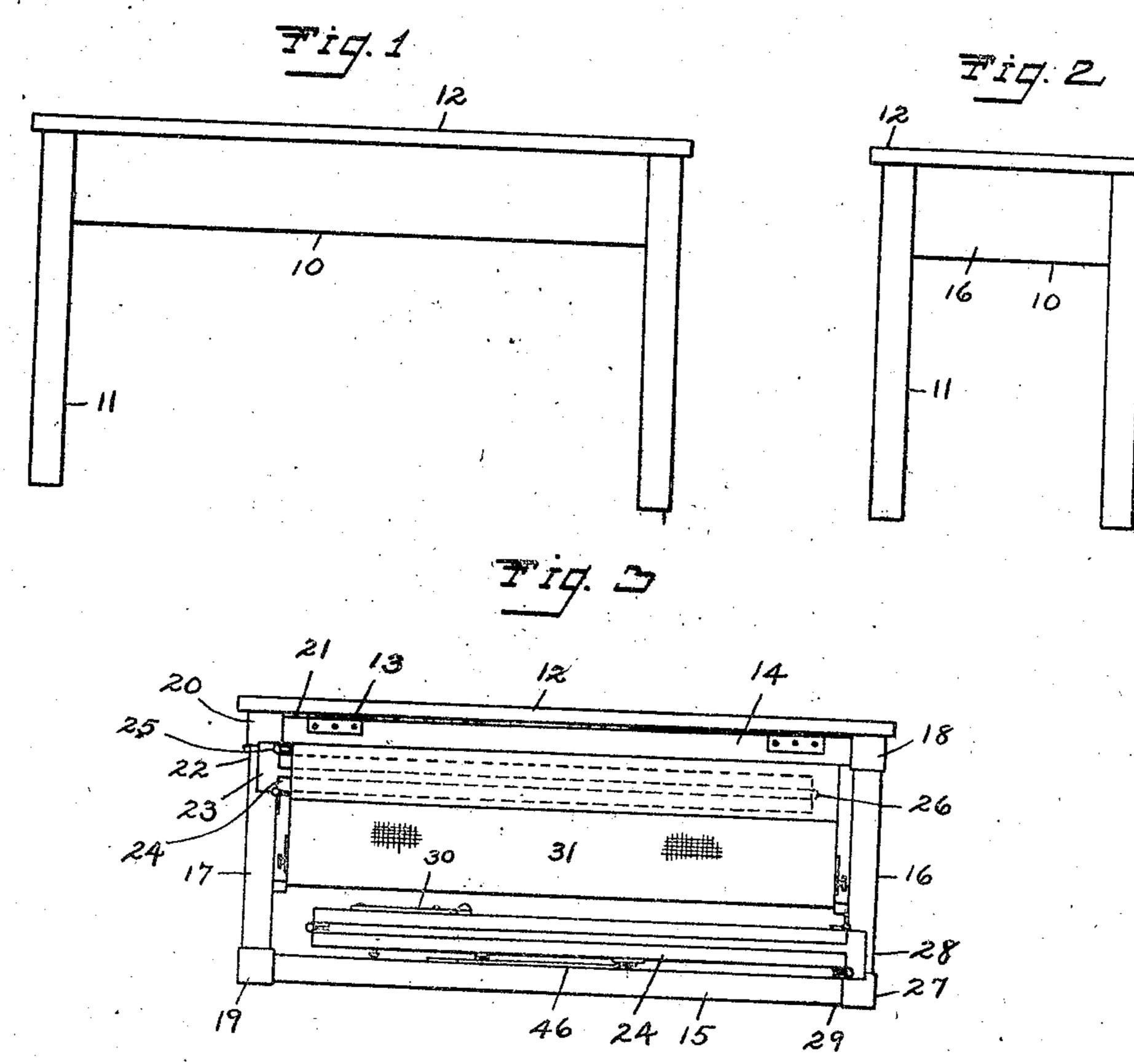
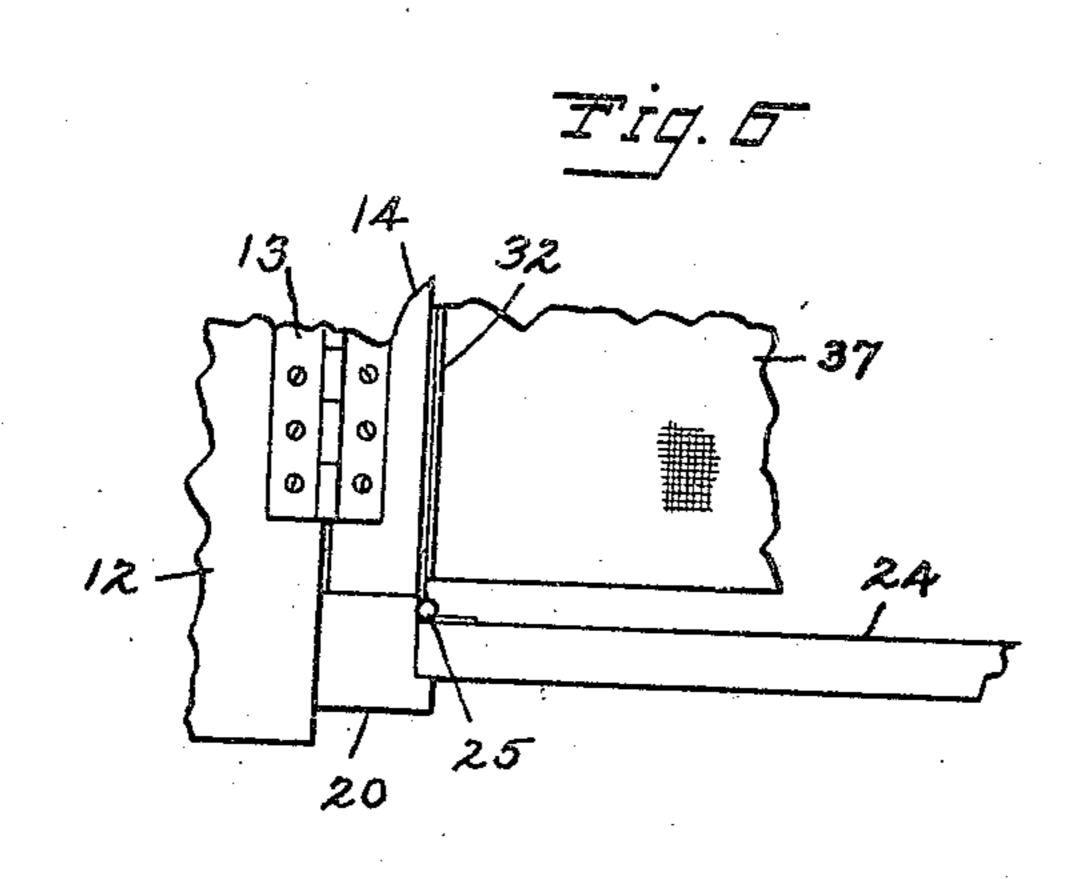
O. C. JOHNSON.

PIANO BENCH AND COT COMBINATION.

FILED JAN. 30, 1922.

2 SHEETS-SHEET 1.





Scar 6. Johnson.

Dy Louis n. Lemidy

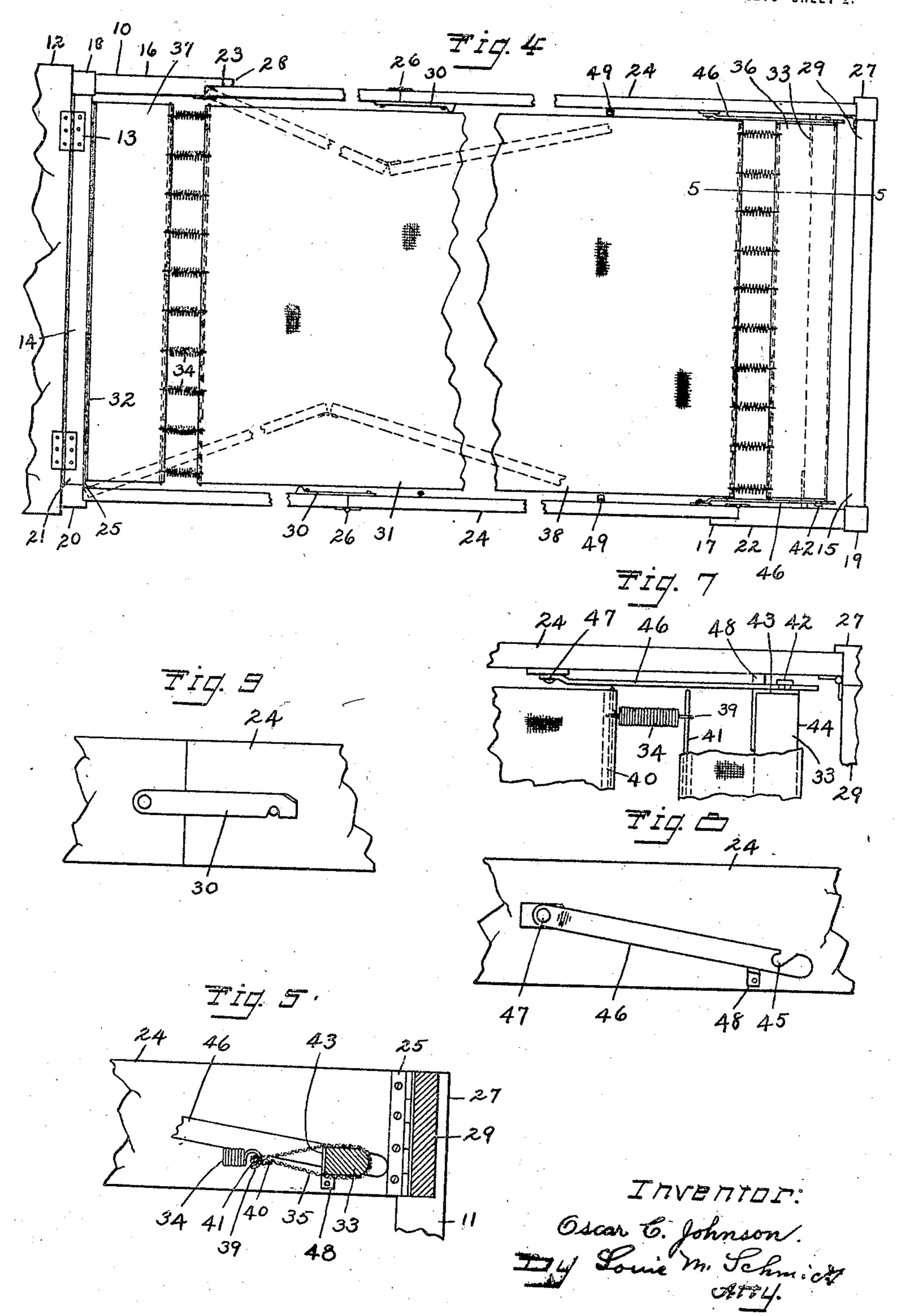
ATTY.

O. C. JOHNSON.

PIANO BENCH AND COT COMBINATION.

FILED JAN. 30, 1922.

2 SHEETS-SHEET 2.



UNITED STATES PATENT OFFICE.

OSCAR CHARLES JOHNSON, OF NEW BRITAIN,

PIANO BENCH AND COT COMBINATION.

Application filed January 30, 1922. Serial No. 532,595.

To all whom it may concern:

Be it known that I, OSCAR CHARLES JOHNson, a citizen of the United States, residing at New Britain, in the county of Hartford 5 and State of Connecticut, have invented certain new and useful Improvements in Piano Bench and Cot Combinations, of which the

following is a specification.

My invention relates to improvements in 10 piano-bench and cot combinations and the object of my improvement is to produce a device that is of collapsible form and that in one position of the parts is adapted to serve as a piano bench and in another posi-15 tion thereof is adapted to serve as a cot, and that, furthermore, involves certain details whereby the arrangement of the parts for the one use or the other is facilitated.

In the accompanying drawing:-

Figure 1 is a side elevation of my im-25 the device in the opened-out position, as used being joined to the head end board 14 for a cot.

Figure 2 is an end elevation of the same, showing the end wall of the bench that is affixed to the head-board and serves as a 30 part of the stringer or side board structure

of the cot that is on the right side.

Figure 3 is a plan view of the same with

the cover open.

Figure 4 is a plan view with the parts in 35 the open position, for use as a cot, some of the parts being indicated in the partially collapsed position by broken lines. to be described.

on the line 5—5 of Fig. 4.

rear corners.

Figure 8 is a fragmentary side view of one

45 of the strut levers.

Figure 9 is a side elevation of one of the latches for the joint between the opposed ends of the stringer or side board sections.

My improved piano-bench and cot com-50 bination comprises with the parts set up for use as a piano-bench what appears to be a box-like structure 10 that is set up on

four legs 11 and is surmounted by a top or cover 12 that serves as the seat proper, said seat 12 being connected to the headboard 14 55

by means of suitable hinges 13.

Said box-like structure 10 comprises the legs 11 at the corners, the head board 14 along one of the longer sides or sides proper, the foot board 15 along the opposite side 60 proper, and relatively shorter end or crossboards at the ends. Said end boards comprise the end board 16 at the right side and the end board 17 at the left side.

When used as a cot, the cover 12 is tilted 65

back.

The head board 14 and the adjacent legs 11 are rigidly united as a fixed structure and one of the end boards is joined permanently to said fixed structure so as to 70 form in a unitary structure the structure of the head end of the cot and a part one proved piano-bench and cot combination in of the side stringers, constituting a rightthe folded or closed position, as used for angled corner of said cot structure. As a piano-bench, showing the particular side shown, the end board 16 forms part of the 75 that serves as the foot-board structure with corner 18 at the right side of the head end, through the medium of the leg 11 that is intermediate these parts.

In a similar way at the foot end of the 80 cot the corner 19, diagonally opposite the corner 18, is composed of the foot board 15, the leg 11, and the end board 17, said corner

19 being also a rigid structure.

The corners of the bench intermediate the 85 corners 18 and 19 are broken, and the parts composing the same are united indirectly through the medium of collapsible devices

Figure 5 is a longitudinal sectional view Thus considering the left hand corner 20 9.0 at the head end, the leg 11 at said corner Figure 6 is a fragmentary plan view on 20 constitutes the free end portion of the an enlarged scale of one of the front corners. head end structure 21 that is composed of Figure 7 is a similar view of one of the the head board 14 and the adjacent legs 11 and the free end 22 of the left end board 17 95 abuts thereagainst, and these parts may be suitably recessed, as shown at 23, for housing parts of the collapsible device mentioned.

Said collapsible device comprises a pair 100 of similar board sections 24 of appreciable length and connected by their ends by means of suitable hinges 25, the one with the head end structure 21 and the other with the

free end 22 of the end board 17. A hinge metal for distributing the strain of the 26 serves to interconnect the other opposed

Thus in the cot position, means are pro-5 vided for a substantially straight stringer on the left side that is composed of the two board sections 24 that extend from the head end structure 21 towards the foot and that constitute the major portion of the length, 10 and the end board 17 at the foot end.

In a similar way the corner 27 that is metal bracket 43 that is secured in any diagonally opposite the corner 20 is com- proper manner on the cross-bar 33. posed of the free end portion 28 of the right end board 16 in abutment with the opposed

15 leg 11 at the right hand end portion of the foot board structure 29, and these parts are interconnected by a collapsible structure that is similar to that described with reference to the corner 20, the board sections 24 and the cot or bed 31 and thereby can change

The only difference between the two The stud 42 is adapted to make operative stringer or side board structures is that the end boards and collapsible structures are reversed in their relative positions, the end 25 board 16 on the right side being at the head end and the collapsible structure at the right side is connected directly to the

foot board structure 29.

30 are located on the outer faces of the sec- shifted when the parts are brought to the 95 tions 24 that are connected thereby when closed position. the device is in extended position, and I pro- Thus the pivotal connection 47 for the 35 strap iron that bridges the gap or junction so that it is adapted to be swung either to- 100 and helps in holding the parts relatively or towards the head end for the idle posirigid.

40 rigidly secured to the head end structure ment and support the free end portion. 105 21 in a proper manner, as by means of a Thus at the foot end is the inwardly dimetal strip or cleat 32 and suitable securing rected stop 48, supported by the side devices is provided with means for support- stringer structure, and at the head end is ing the foot end portion that permit of the stop 49. 45 readily connecting and disconnecting the The active stop 48 at the foot end is 110

55 in the foot end section 36. Said foot end have the effect of changing and disturbing 120 section 36 is relatively short. The section such assembled relation. 37 at the head end may, however, be still In the closed position the board sections 60 tends the major portion of the length of the 33, and these parts are housed within the 125 structure of the bed 31.

65 are housed in each case a cross-rod 41 of ner for use.

springs.

ends of said board sections 24. The foot cross-bar 33 is utilized for effecting the connection for the bed 31 at the foot end by means of a laterally directed 70 stud 42, which preferably is a headed stud, as shown, and which projects laterally from the end thereof, there being one such stud 42 at each end.

As a detail, the stud 42 is mounted on a 75

Also, said stud 42 is set in off-set relation to the center of said cross-bar 33, so as to be nearer to one of the side edges 44 than 80 the other, as shown, so that the bar can be turned one way or the other to effect an appreciable change in the effective length of 20 hinges 25 and 26 being similar. the tension or stretch of the bed structure.

engagement with a suitable notch 45 in the upper edge portion of a suitable strip of iron that is in registration therewith, said strip, as shown, being in the form of a 90 lever 46 that operates as a strut, being subject to compression when in position for use as well as transverse strain, and being piv-In the case of the section hinges 26, these otally supported for permitting of being

vide on the opposite inner face of each lever 46 is provided at the head end on the stringer structure a reinforcing latch 30 of inner face of the opposed board section 24 at the abutting ends of the section boards 24 wards the foot end for the active position tion. In either case a post that serves as a The cot proper or supporting bed 31 is stop is provided to limit the swinging move-

parts, as will be described, and is made of placed so that in assembling the stud 42 is a form that is adapted to be rolled up from brought below the line of centers as deterthe foot towards the head, as by the use of mined by the pivotal connection 47 and the a cross-bar 33 at the foot as a core. two end supports for the bed 31, thus per-The bed 31 shown is made up as a spring mitting the structure of the same being sub- 115 bed or mattress of a plurality of sections of jected to longitudinal tension when in the fabric that are interconnected by means of assembled position. This condition involves suitable sets of coil springs 34, and the a tendency to hold the parts in the assembled cross-bar 33 is housed in a hem or loop 35 relation and to resist any action that would

shorter, as shown. The third and interme- 24 are folded together and the bed 31 is diate section 38 is relatively long and ex- for the most part rolled up on the cross-bar box-like structure 10, there being ample For cooperating with the hook ends 39 room for receiving and entirely enclosing of the springs 34 there are provided in the the same, so as to be invisible when the fabric diminutive folds or loops 40 in which piano-bench is set up in the ordinary man-

130

I claim as my invention:—

1. A piano-bench and cot combination comprising in the closed position a box-like structure of rectangular form that is sup-5 ported by a set of legs, said structure comprising extensions of said legs at the corners, side boards extending along the longer sides, and end boards at the shorter sides, the side boards being connected by their ends with 10 the opposed legs, the end boards being individually connected by one end to diagonally disposed legs and having the free end op-15 joints being bridged in each case by a col- erence to the axis of the bar. lapsible side rail section, and said rail sec-

tions being each provided with a hinged strut for connection with a cross-rail on a bed bottom.

2. In a piano-bench and cot combination, 20 a collapsible frame structure and a filler in the form of a bed structure, one end of said filler being fixedly secured to said frame structure, the other end of said filler having a fold, a cross-bar positioned in said 25 fold, and means for connecting the ends of said bar with said frame structure, and said bar being of rectangular form of crossposed to the adjacent leg and separated section and having the connecting means at therefrom by a broken joint, said broken the ends positioned eccentrically with ref- 30 OSCAR CHARLES JOHNSON.