

E. C. R. ELLSWORTH.
STOOL,
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998,881.

Patented July 25, 1911.

FIG. 1

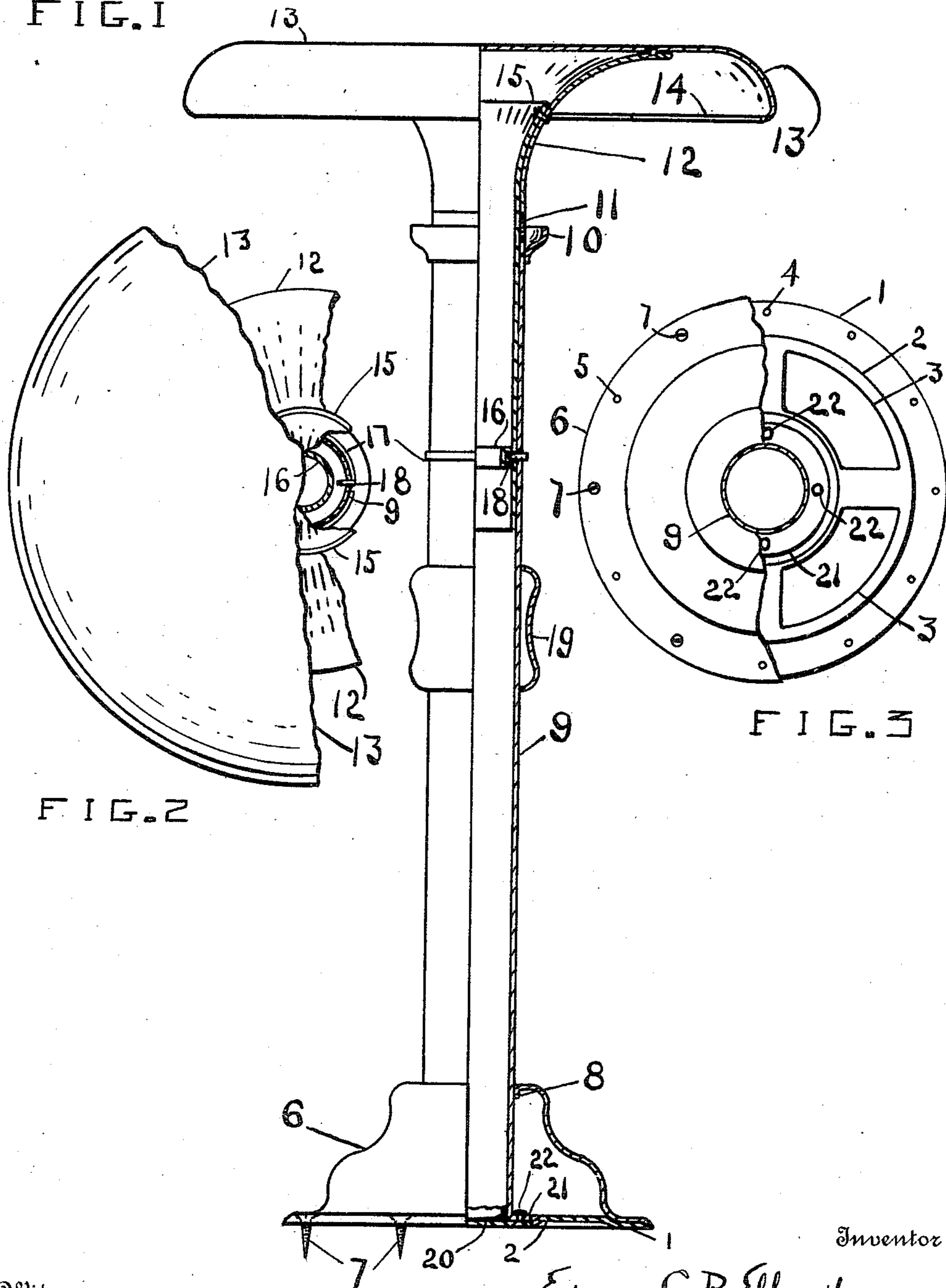


FIG. 2

FIG. 3

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STOOL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD C. R. ELLSWORTH, a citizen of the United States, residing at Toledo, Lucas county, Ohio, have
5 invented new and useful Stools, of which the following is a specification.

This invention relates to metal furniture, and more particularly such furniture built of wrought metal.

10 This invention has utility when embodied in platform furniture anchored in position against shifting, as store stools, etc.

Referring to the drawings: Figure 1 is an elevation, half in medial vertical section of
15 an embodiment of the invention in a store stool; Fig. 2 is a plan view, with parts broken away, showing section of spring holding device; and Fig. 3 is a section looking down on the base, parts being broken
20 away.

The circular floor plate or base member 1, has adjacent its outer floor contacting rim the upwardly dished portion 2, which has openings 3 therethrough, to lighten the
25 structure. The central portion of the floor plate 1, and its rim or outer portion, contact the floor, permitting of the rim being firmly anchored, while the central portion provides a fixed and firm seat. The rim of plate 1 has
30 a plurality of holes 4 therein, through some of which rivets 5 serve to lock the brace member 6 of the base in engagement with the floor plate. Screws 7, through the combined trimming and brace member 6 serve to anchor the base in position. Concentric with
35 the central seat portion of floor plate 1, the brace member 6 is provided with an opening having an inwardly bent flange or sleeve 8, serving to brace and firmly hold the tubular column 9, forming the sustaining pedestal of the stool. Flange 8 has snug frictional engagement with column 9.

Near its top, the column 9 is provided with an annular cup 10, frictionally held thereon.
45 This cup serves not only as a trimming, but to prevent lubricant from running down the pedestal to accumulate dirt and injure clothing, as well as detract from the appearance of the article of furniture. Just above this
50 oil cup 10 is disposed the bronze ring or annular bearing 11 which loosely rests upon the upper terminus of column 9. Contacting the other end of this bearing 11 is the lower or smaller end of the bell member 12, which
55 at its flare portion supports the platform element 13. This element 13 is of uniform

thickness throughout its extent, which is coincident with the extent of the platform or seat portion of the stool. To stiffen the platform, in addition to the reinforcing action
60 of the spreading bell support 12, the element 13 has a bounding flange or annular rim, herein shown as bent downwardly, while this rim terminates in a bead or inward bend 14. Accordingly the seat has a continuous sheet
65 metal top surrounded or bounded by an integral rim.

Fixed with the bell 12 is the sleeve 15 extending inside the tubular column 9. This guide sleeve or stem has an inwardly extending groove forming an annular recess 16.
70 The spring ring 17, snapped around the column 9, has the angularly disposed terminus 18 for engagement with an opening in the column 9 and recess 16. Accordingly in assembling, the stem is slipped into the column
75 to seating position, spring 17 is placed about the column with its bent end 18 entering opening in column and protruding into recess 16, thus holding the seat or platform
80 against removal while permitting free rotative movement relatively to the column. A further sheet metal trimming 19 is forced upon the column 9 and frictionally held in position thereon.
85

While it is not contemplated to use such a fluid lubricant as oil, in practice such may be introduced by storekeepers into the oil cups
10 to aid in free and noiseless rotation. To eliminate possible disfiguring of floor from
90 such source, the tube 9 is given a tight fit in the floor plate 1, in this instance by introducing a little pitch 20. To firmly anchor the column 9 to the base member 1, the column is provided with the flange 21, which is held to
95 the plate seat by the rivets 22. The double thickness of the rim of the base, permits countersinking of flat head screws, and thus providing a smooth finish to not catch on
100 mops or clothing.

The load on the platform or seat is taken care of on the thrust bearing or bronze ring 11, while unevennesses in the load or side strains are cared for by the extended lateral bearing of stem 15. These bearings are of a
105 character which will not work loose, and which are permanent and durable, making the structure as a whole not only cheap to produce, but light and sightly.

What is claimed and it is desired to secure
110 by Letters Patent is:

1. The combination with a column, of a

base in which said column terminates, said base comprising a floor plate with central and peripheral floor contacting portions, the intermediate portion being dishd away
5 from the floor, said central floor contacting portion forming a seat for the column terminal, and a brace member engaging with the peripheral floor contacting portion of the floor plate, said brace member upwardly extending from said floor plate engaging portion to frictionally embrace the column at a point spaced from the column terminal.

2. The combination with a column having a flanged terminal, of a base comprising a
15 floor plate with a central floor contacting portion in which the flanged column terminal may seat, and a brace member, said floor plate having a peripheral floor contacting portion engaged by said brace member, and
20 from which said brace member extends up-

wardly to engage the column at a point spaced from the flanged terminal.

3. The combination in an article of furniture for a normally flexible platform of a pair of continuous platform reinforcements, 25 one within the other, one of said reinforcements being the uniform thickness, platform terminating in a rim bent at an angle to the platform and surrounding the platform to make rigid the region of the platform adjacent its periphery, and the other of said reinforcements being a transverse stiffening support for the central region of said platform.

In testimony whereof I affix my signature 35 in the presence of two witnesses.

EDWARD C. R. ELLSWORTH.

Witnesses:

C. H. RAUCH,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
