MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS—1965
Conventional Application for a Patent

We

HEINRICH ROEPSTORFF A/S

of

Østerled, DK-4300 Holbaek, Denmark

hereby apply for the grant of a Patent for an invention entitled

"A CHAIR WITH A ROCKER SEAT"

which is described in the accompanying complete specification.

This application is a Convention Application and is based on the
application numbered 2300/73

for a patent or similar protection made in Denmark

on 27th April, 1973

Our address for service is:

Care: SPRUSON & FERGUSON PATENT ATTORNEYS
ESSO GALAX HOUSE, 127 KENT STREET SYDNEY, NEW SOUTH WALES 2000 AUSTRALIA.

Dated this NINETEENTH day of APRIL, 1974.

To:
The Commissioner of Patents
DECLARATION IN SUPPORT OF A CONVENTION APPLICATION FOR A PATENT OR PATENT OF ADDITION

In support of the Convention Application made for a patent for an invention entitled

"A CHAIR WITH A ROCKER SEAT"

Full name and address of Declarant.

I, Mogens Erik Roepstorff, General Manager,
of HEINRICH ROEPSTORFF A/S, Østerled,
DK-4300 Holbaek, Denmark
do solemnly and sincerely declare as follows:—

1. I am the applicant for the patent of addition
(or, in the case of an application by a body corporate)
1. I am authorised by HEINRICH ROEPSTORFF A/S

the applicant for the patent of addition to make this declaration on its behalf.

2. The basic application as defined by Section 141 of the Act was made in

Denmark

27th day of April, 1973 by

HEINRICH ROEPSTORFF A/S

3. I am the actual inventor of the invention referred to in the basic application.
(or where a person other than the inventor is the applicant)

3. MOGENS ERIK ROEPSTORFF of Købmagergade 60,
DK-1160 Copenhagen K, Denmark

is the actual inventor of the invention and the facts upon which the applicant is/are entitled to make the application are as follows:

The said applicant is the assignee of the actual inventor.

4. The basic application referred to in paragraph 2 of this Declaration was the first application made in a Convention country in respect of the invention the subject of the application.

Declared at Copenhagen this 8th day of April 1974

HEINRICH ROEPSTORFF

Signature of Declarant

To: The Commissioner of Patents,
Complete Specification

Name of Applicant: HEINRICH ROEPSTORFF A/S
Address of Applicant: Østerled, DK-4300 Holbaek, Denmark
Inventor: MOGENS ERIK ROEPSTORFF

Complete Specification for the invention entitled:

"A CHAIR WITH A ROCKER SEAT"

The following statement is a full description of this invention, including the best method of performing it known to me/us:

[Handwritten note: "Journal 12/8/76"]
This invention relates to a chair with a rocker seat mounted on top of a central post. In the previously known chairs of this type it was attempted to impart a certain movability to the seat so that it could be tilted forward and backwards against the action of a suitable spring, but the known structures required too much space and were too complex, being preferably operated by means of torsion springs, and it has been the object of the present invention to provide a chair which functions in the same way but in a much more simple fashion and requiring a minimum of space.

This object has been accomplished according to the invention by a structure in which a post supports at its top a traverse member which is clamped at both ends between a crossbar firmly connected to the seat and a block of an elastic deformable material such as rubber which is supported in a housing rigidly connected to the crossbar.

When using the said blocks of a deformable material such as rubber and mounting them at either end of the said traverse member, that is closely adjacent to the axis about which the seat shall be able to tilt, the blocks may be relatively small and still ensure adequate freedom of movement and sufficient elasticity, the properties of the material being selected with a view to the desired conditions. Thus the whole structure will be extremely simple and compact, and the rubber blocks will cause no noise whatever during the rocking movement.

To obtain in a simple manner a reliable mounting of the traverse member in relation to the said crossbars
it will be expedient to provide each crossbar with a groove in which the traverse member is engaged and guided, and to be able to adequately adjust the resistance to the tilting movement the chair according to the invention may be provided in the housing at least at one end of the traverse member with a screw for tensioning the clamping of the block. In many cases it may be desired to limit the tilting movement and for this purpose there may be provided at least at one end of the traverse member a strap secured to the crossbar and enclosing the traverse member with a certain play. To enable the limitation of the tilting movement to be adjusted to requirement the said strap may be provided with a screw for adjustment of the play.

The invention will be described in greater detail below with reference to the drawing, in which

Figure 1 presents a vertical section through the seat and the rocker mechanism of a chair according to the invention, and

Figure 2 is a section along the line II-II in Figure 1.

Figure 1 shows a seat 1 which is firmly connected to two crossbars 2, shown most clearly in Figure 2. In each crossbar 2 is provided a groove 3 for receiving respective ends of a traverse member 4 rigidly connected to a central post 5. The post may be provided with a bearing 6 so that the traverse member will be rotatable in a horizontal plane relatively to the post 5.

To each of the crossbars 2 is secured a housing
7 and within that housing is disposed a rubber block 8 which is guided at the top in a recess 9 in the traverse member 4 and at the bottom in a pan 10 so that each rubber block is clamped between the housing 7 and the traverse member 4. Under the pan 10 are provided one or more spacing members 11 so that the initial tension of the rubber block may be adjusted. In one of the housings is shown a tightening screw 12 which serves to further compress the block 8.

In the housing at the other end of the traverse member 4 is provided a strap 13 secured to the underside of the crossbar 2 and, as will be seen best from Figure 2, this strap serves to limit the tilting movement in that the traverse member 4 will abut with its edges on the inner face of the strap when the movement reaches a certain extent, which can be adjusted by means of the adjustment screw 14 provided in the strap. Moreover it will be noted that the groove 3 along each edge has a special inwardly extending recess, 15 and 16 respectively, serving to engage the edges of the traverse member 4 and thus ensure that even during the greatest tilting movement the traverse member 4 will be guided effectively in relation to the crossbars 2.

To facilitate assembly of the structure each of the housings 7 is provided with an opening 17 through which the traverse member 4 can be readily introduced. After assembly the opening is covered by a plate 18 which is screwed to the underside of the traverse member 4.
CLAIMS
The claims defining the inventions are as follows:

1. A chair with a rocker seat mounted on top of a central post, characterized in that the post supports at its top a traverse member which is clamped at both ends between crossbars firmly connected to the seat and blocks of an elastic deformable material such as rubber which are supported within housings rigidly connected to the crossbars.

2. A chair according to claim 1, characterized in that each crossbar has a groove for engaging and guiding the said traverse member.

3. A chair according to claim 1 or 2, characterized in that the said housing is provided at least at one end of the traverse member with a screw member for clamping the block.

4. A chair according to claim 1, 2 or 3, characterized in that at least at one end of the traverse member there is provided a strap secured to the crossbar and enclosing the traverse member with a certain play.

5. A chair according to claim 4, characterized in that in the said strap is mounted a screw for adjustment of the said play.

DATED this EIGHTEENTH day of April, 1974

HEINRICH ROEPSTORFF A/S

Patent Attorneys for the Applicant
SPRUSON & FERGUSON

-5-
DRAWINGS
END