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SPECIFICATION



G00002

STROLLER

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BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a stroller having a main frame, and a seat mounted on the main frame and having a backrest capable of being set selectively at an inclination.

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Description of the Related Art

Some generally known stroller for carrying a baby outdoors for strolling and shopping is provided with a seat having a backrest that can be set at an inclination suitable for supporting the baby in a lying position or a sitting position.

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In this known stroller, a holding belt for holding the backrest is extended between right and left handles, and the holding belt is provided with a length adjustment device. The inclination of the backrest held by the holding belt is adjusted by operating the length adjustment device to adjust the effective length of the holding belt.

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Although the fine adjustment of the inclination of the backrest is possible, the effective length of the holding belt needs to be changed by using both hands every time the inclination of the backrest needs to be changed. Such adjustment of the inclination of the backrest requires troublesome operations and is difficult for a person holding a baby to achieve.

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SUMMARY OF THE INVENTION

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The present invention has been made in view of such a problem and it is therefore an object of the present invention to provide a stroller having a backrest that can easily be set at a desired inclination.

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A stroller according to the present invention comprises:
a main frame including a handle having right and left side pipes; a seat mounted on the main frame and having a seat

panel and a backrest turnable relative to the seat panel;
a foldable head protector connected to the upper edge of the
backrest; and a holding belt extended between the right and
the left side pipe; wherein the opposite end parts of the
5 holding belt are fastened to a pair of sliding members capable
of sliding along the right and the left side pipe.

In the stroller according to the present invention, the
head protector extends between the upper edge of the backrest
and the holding belt when the backrest is set in a reclined
10 position, and lies on the back side of the backrest when the
backrest is set in a standing position.

In the stroller according to the present invention, the
sliding members are at upper positions in upper parts of the
right and the left side pipe of the handle, respectively,
15 to hold the head protector by the holding belt when the backrest
is set in the reclined position, and the sliding members are
at lower positions in lower parts of the right and the left
side pipe of the handle, respectively, to hold the backrest
by the holding belt when the backrest is set in the standing
20 position.

In the stroller according to the present invention, the
right and the left side pipe are provided with stopping members
capable of engaging the sliding members when the sliding
members are at the upper and the lower positions, respectively.

25 In the stroller according to the present invention, the
stopping members are pushed by springs so as to project from
the right and left side pipe, respectively, and the sliding
members are provided with holes in which the holding members
engage, respectively.

30 In the stroller according to the present invention, a
grip is attached to the back side of the holding belt.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic perspective view of a stroller
35 in a preferred embodiment according to the present invention,
in which a backrest is set in a standing position;

Fig. 2 is a schematic perspective view of the stroller shown in Fig. 1, in which the backrest is set in a reclined position;

Fig. 3 is an enlarged, schematic perspective view of a seat taken from behind the seat, in which the backrest is in a reclined position;

Fig. 4 is an enlarged, schematic perspective view of the seat taken from behind the seat, in which the backrest is in a standing position;

Fig. 5 is a schematic sectional view of the stroller shown in Fig. 1, in which the backrest is set in a standing position; and

Fig. 6 is a schematic sectional view of the stroller shown in Fig. 1, in which the backrest is set in a reclined position.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figs. 1 and 2 showing a stroller provided with a reclining mechanism in a preferred embodiment according to the present invention in schematic perspective views, a main frame 10 includes right and left front legs 12 respectively provided with front double wheels 11, right and left rear legs 14 provided with rear double wheels 13, a handle 15 having a shape substantially resembling the inverted letter U and right and left armrests 16. An X-shaped brace 17 connects the right and the left rear legs 14, and right and left side pipes 15a of the handle 15. Right and left horizontal bars, not shown, are provided integrally with upper parts of the right and the left rear legs 14 so as to extend forward beyond the front legs 12, respectively. A seat support belt, not shown, is extended between the right and the left horizontal bars. A seat 20 has a seat panel 21 and a backrest 22. The seat panel 21 of the seat 20 is supported on the support belt. The seat panel 21 of the seat 20 has a base, and a soft covering the base. The seat panel 21 has a front end part put on front end parts of the right and left horizontal bars, and a middle

part supported on the support belt.

The backrest 22 is connected to a rear part of the seat panel 21 so as to be reclinable relative to the seat panel 21 for inclination adjustment. The backrest 22, similarly to the seat panel 21, is formed by covering a base with a soft covering. Side wings 22a extended along the right and the left side of the backrest 22 are connected to upper parts of the front legs 12. The backrest 22 can be set in a standing position in Fig. 1 and can be tilted rearward in a reclined position in Fig. 2.

As shown in Fig. 3, a foldable head protector 23 of fabric is connected to the upper edge of the backrest 22. A holding belt 24 is extended laterally and attached to the back surface of an upper part of the head protector 23. The opposite end parts of the holding belt 24 are fastened to sliding members 25 slidably put on the right and the left side pipe 15a of the handle 15, respectively.

The right and the left side pipe 15a of the handle 15 are provided with upper stoppers 26a in their upper parts and with lower stoppers 26b in their lower parts, respectively. The stoppers 26a and 26b are pushed by springs so as to project from the right and the left side pipe 15a. The sliding members 25 are provided with holes 25a, respectively. The upper stoppers 26a or the lower stoppers 26b engage in the holes 25a of the sliding members 25 when the sliding members 25 are at their upper positions to hold the sliding members 25 at their upper positions or at their lower positions to hold the sliding members 25 at their lower positions, respectively. A grip 27 is attached to the back side of the holding belt 25.

Right and left side parts of the backrest 22 are connected to the right and the left side pipe 15a of the handle 15 by a holding belt 24 of a proper length provided with a coupling device 28a.

Referring to Fig. 4 showing the seat 20 with the backrest 22 substantially in a standing position in a schematic

perspective view taken from behind the seat 20, the sliding members 25 to which the holding belt 24 is fastened are at the lower positions, respectively. In this state, the lower stoppers 26b are engaged in the holes 25a of the sliding members 25 to hold the sliding members at the lower positions, respectively, and the head protector 23 is folded on the back side of the backrest 22, and a lower part of the head protector 23 is folded upward. The holding belt 24 holds the backrest 22 in the standing position. In Fig. 5, the backrest 22 is set in the standing position.

When it is desired to set the backrest 22 in the reclined position, the grip 27 is gripped and is pulled upward together with the holding belt 24 and the sliding members 25. Consequently, the lower stoppers 26b are disengaged from the holes 25a of the sliding members 25. Then, the sliding members 25 are moved further upward along the side pipes 15a until the upper stoppers 26a engage in the holes 25a of the sliding members 25. In this state, the backrest 22 is tilted rearward, the head projector 23 is spread as shown in Fig. 3 to support the backrest 22 by the upper end part in the reclined position as shown in Fig. 6.

When it is desired to set the head rest in the standing position, the backrest 22 is pushed forward, the grip 27 is pulled downward to move the right and the left sliding member 25 together with the holding belt 24 to the lower positions. Consequently, the holding belt 24 holds the backrest 22 in the standing as shown in Figs. 4 and 5.

The backrest 22 can be adjusted to positions between the standing position shown in Fig. 5 and the reclined position shown in Fig. 6 by providing the holding belt 24 with a length adjustment device.

As apparent from the foregoing description, according to the present invention, the foldable head protector is connected to the upper edge of the backrest of the seat mounted on the main frame of the stroller, the holding belt is extended laterally and attached to the upper part of the head protector,

and the right and the left end part of the holding belt are fastened to the sliding members slidably put on the right and the left side pipe of the handle. Thus, the inclination of the backrest can selectively and very easily be changed
5 simply by moving the holding belt upward and downward together with the sliding members.

What is claimed is:

1. A stroller comprising:

a main frame including a handle having right and left side pipes;

a seat mounted on the main frame and having a seat panel and a backrest turnable relative to the seat panel;

a foldable head protector connected to an upper edge of the backrest; and

a holding belt extended between the right and the left side pipe;

wherein opposite end parts of the holding belt are fastened to a pair of sliding members capable of sliding along the right and the left side pipe.

2. The stroller according to claim 1, wherein

the head protector extends between the upper edge of the backrest and the holding belt when the backrest is set in a reclined position, and

the head protector lies on a back side of the backrest when the backrest is set in a standing position.

3. The stroller according to claim 2, wherein

the sliding members are at upper positions in upper parts of the right and the left side pipe of the handle, respectively, to hold the head protector by the holding belt when the backrest is set in the reclined position, and

the sliding members are at lower positions in lower parts of the right and the left side pipe of the handle, respectively, to hold the backrest by the holding belt when the backrest is set in the standing position.

4. The stroller according to claim 3, wherein

the right and the left side pipe are provided with stopping members capable of engaging the sliding members when the sliding members are at the upper and the lower positions, respectively.

5. The stroller according to claim 4, wherein

the stopping members are pushed by springs so as to project from the right and left side pipe, respectively, and

the sliding members are provided with holes in which the holding members engage, respectively.

6. The stroller according to claim 1, wherein a grip is attached to a back side of the holding belt.

7. The stroller according to claim 1, wherein length of the holding belt is adjustable.