CLAIMS

Claim 1.

An absorbent article comprising a liquid-permeable top sheet, a liquid-impermeable back sheet and an absorbent body between the liquid-permeable top sheet and liquid-impermeable back sheet,

wherein the absorbent article has in the excretory opening contact region a domed section that protrudes in the thickness direction of the absorbent article,

the domed section comprises part of the top sheet and a cushion section disposed between the top sheet and the absorbent body, and has a center section and an outer peripheral section surrounding the center section,

the cushion section has a maximum thickness of 3 to 30 mm,

the domed section has a work of compression WC of 10-50 ($N \cdot m/m^2$) and a compressional resilience RC of 35-100% at the center section, and

the absorbent body has a length of 80 to 230 mm in the lengthwise direction of the absorbent article and a length of 30 to 90 mm in the widthwise direction of the absorbent article,

wherein the cushion section has a compressive force of 0.1-3.6N in the widthwise direction of the absorbent article.

Claim 2.

The absorbent article according to claim 1, wherein the cushion section has an average basis weight of 50 to 1,000 g/m^2.

~~Claim 3.~~

~~The absorbent article according to claim 1 or 2, wherein the cushion section has a compressive force of 0.1-3.6N in the widthwise direction of the absorbent article.~~

Claim ~~4~~ 3.

The absorbent article according to claim 1 ~~any one of claims 1 to 3~~, wherein the cushion section comprises an air-through nonwoven fabric in which the intersections

between fibers are heat-fused.

Claim ~~5~~ 4.

The absorbent article according to ~~any one of~~ claims ~~1 to 4~~, wherein the density of the cushion section at the outer peripheral section is higher than the density of the cushion section at the center section.

Claim ~~6~~ 5.

The absorbent article according to ~~any one of~~ claims ~~1 to 5~~, wherein the absorbent article has an embossed section formed by embossing at least the top sheet and the absorbent body, near the outer edge of the cushion section.

Claim ~~7~~ 6.

The absorbent article according to ~~any one of~~ claims ~~1 to 6~~, wherein the cushion section retains at least 50% of its maximum thickness after absorption of 2 g of horse EDTA blood, as compared to before horse EDTA blood absorption.

Claim ~~8~~ 7.

The absorbent article according to ~~any one of~~ claims ~~1 to 7~~, wherein the absorbent article has a curved structure in which the domed section curves inward.

Claim ~~9~~ 8.

The absorbent article according to ~~any one of~~ claims ~~1 to 8~~, wherein the absorbent article has an elastic member at both edges in the lengthwise direction.

Claim ~~10~~ 9.

The absorbent article according to ~~any one of~~ claims ~~1 to 9~~, wherein the top sheet has, on the skin contact surface, a plurality of ridges and a plurality of furrows, extending in the lengthwise direction of the absorbent article.

Claim ~~11~~ 10.

The absorbent article according to ~~any one of~~ claims ~~1 to 10~~, wherein the domed section further comprises a blood modifying agent with an IOB of 0.00-0.60, a melting point of 45°C or less and a water solubility of 0.00-0.05

g in 100 g of water at 25°C.

Claim ~~12~~ 11.

The absorbent article according to claim ~~11~~ 10, wherein the blood modifying agent is selected from the group consisting of following items (i)-(iii), and any combination thereof:

(i) a hydrocarbon;

(ii) a compound having (ii-1) a hydrocarbon moiety, and (ii-2) one or more, same or different groups selected from the group consisting of carbonyl group (-CO-) and oxy group (-O-) inserted between a C-C single bond of the hydrocarbon moiety; and

(iii) a compound having (iii-1) a hydrocarbon moiety, (iii-2) one or more, same or different groups selected from the group consisting of carbonyl group (-CO-) and oxy group (-O-) inserted between a C-C single bond of the hydrocarbon moiety, and (iii-3) one or more, same or different groups selected from the group consisting of carboxyl group (-COOH) and hydroxyl group (-OH) substituting for a hydrogen of the hydrocarbon moiety;

with the proviso that when 2 or more oxy groups are inserted in the compound of (ii) or (iii), the oxy groups are not adjacent.

Claim ~~13~~ 12.

The absorbent article according to claim ~~11 or 12~~ 10, wherein the blood modifying agent is selected from the group consisting of following items (i')-(iii'), and any combination thereof:

(i') a hydrocarbon;

(ii') a compound having (ii'-1) a hydrocarbon moiety, and (ii'-2) one or more, same or different bonds selected from the group consisting of carbonyl bond (-CO-), ester bond (-COO-), carbonate bond (-OCOO-), and ether bond (-O-) inserted between a C-C single bond of the hydrocarbon moiety; and

(iii') a compound having (iii'-1) a hydrocarbon

moiety, (iii'-2) one or more, same or different bonds selected from the group consisting of carbonyl bond (-CO-), ester bond (-COO-), carbonate bond (-OCOO-), and ether bond (-O-) inserted between a C-C single bond of the hydrocarbon moiety, and (iii'-3) one or more, same or different groups selected from the group consisting of carboxyl group (-COOH) and hydroxyl group (-OH) substituting for a hydrogen on the hydrocarbon moiety;

with the proviso that when 2 or more same or different bonds are inserted in a compound of (ii') or (iii'), the bonds are not adjacent.

Claim ~~14~~ 13.

The absorbent article according to claim 10 ~~any one of claims 11 to 13~~, wherein the blood modifying agent is selected from the group consisting of following items (A)-(F), and any combination thereof:

(A) an ester of (A1) a compound having a chain hydrocarbon moiety and 2-4 hydroxyl groups substituting for hydrogens on the chain hydrocarbon moiety, and (A2) a compound having a chain hydrocarbon moiety and 1 carboxyl group substituting for a hydrogen on the chain hydrocarbon moiety;

(B) an ether of (B1) a compound having a chain hydrocarbon moiety and 2-4 hydroxyl groups substituting for hydrogens on the chain hydrocarbon moiety, and (B2) a compound having a chain hydrocarbon moiety and 1 hydroxyl group substituting for a hydrogen on the chain hydrocarbon moiety;

(C) an ester of (C1) a carboxylic acid, hydroxy acid, alkoxy acid or oxoacid comprising a chain hydrocarbon moiety and 2-4 carboxyl groups substituting for hydrogens on the chain hydrocarbon moiety, and (C2) a compound having a chain hydrocarbon moiety and 1 hydroxyl group substituting for a hydrogen on the chain hydrocarbon moiety;

(D) a compound having a chain hydrocarbon moiety and one bond selected from the group consisting of

ether bonds (-O-), carbonyl bonds (-CO-), ester bonds (-COO-) and carbonate bonds (-OCOO-) inserted between a C-C single bond of the chain hydrocarbon moiety;

(E) a polyoxy C_2-C_6 alkylene glycol, or ester or ether thereof; and

(F) a chain hydrocarbon.

Claim ~~15~~ 14.

The absorbent article according to claim 10 ~~any one of claims 11 to 14~~, wherein the blood modifying agent is selected from the group consisting of (a_1) an ester of a chain hydrocarbon tetraol and at least one fatty acid, (a_2) an ester of a chain hydrocarbon triol and at least one fatty acid, (a_3) an ester of a chain hydrocarbon diol and at least one fatty acid, (b_1) an ether of a chain hydrocarbon tetraol and at least one aliphatic monohydric alcohol, (b_2) an ether of a chain hydrocarbon triol and at least one aliphatic monohydric alcohol, (b_3) an ether of a chain hydrocarbon diol and at least one aliphatic monohydric alcohol, (c_1) an ester of a chain hydrocarbon tetracarboxylic acid, hydroxy acid, alkoxy acid or oxoacid with 4 carboxyl groups, and at least one aliphatic monohydric alcohol, (c_2) an ester of a chain hydrocarbon tricarboxylic acid, hydroxy acid, alkoxy acid or oxoacid with 3 carboxyl groups, and at least one aliphatic monohydric alcohol, (c_3) an ester of a chain hydrocarbon dicarboxylic acid, hydroxy acid, alkoxy acid or oxoacid with 2 carboxyl groups, and at least one aliphatic monohydric alcohol, (d_1) an ether of an aliphatic monohydric alcohol and an aliphatic monohydric alcohol, (d_2) a dialkyl ketone, (d_3) an ester of a fatty acid and an aliphatic monohydric alcohol, (d_4) a dialkyl carbonate, (e_1) a polyoxy C_2-C_6 alkylene glycol, (e_2) an ester of a polyoxy C_2-C_6 alkylene glycols and at least one fatty acid, (e_3) an ether of a polyoxy C_2-C_6 alkylene glycol and at least one aliphatic monohydric alcohol, (e_4) an ester of a polyoxy C_2-C_6 alkylene glycols and a chain hydrocarbon tetracarboxylic acid, chain hydrocarbon

tricarboxylic acid or chain hydrocarbon dicarboxylic acid, (e_5) an ether of a polyoxy C_2-C_6 alkylene glycol and a chain hydrocarbon tetraol, chain hydrocarbon triol or chain hydrocarbon diol, and (f_1) a chain alkane, and any combination thereof.