CLAIMS

1. A thin air jack comprising an airtight body which is formed in the shape of a bag having a sealed structure with a film, an air supply hose whose base end portion is inserted into the airtight body in an airtight manner and which is provided with a connector with a check valve connected to an air supply source at its tip portion, a valve attachment hose whose base end portion is inserted into the airtight body in an airtight manner and which is provided with a safety valve at its tip portion, a cover body which is formed in the shape of a bag with a synthetic resin material, and which accommodates the airtight body in a state that the tip portions of the air supply hose and valve attachment hose protrude outwardly, respectively, an interior body which is formed with a woven fabric made of synthetic fiber in the shape of a bag and which accommodates the airtight body and cover body in a state that the tip portions of the air supply hose and valve attachment hose protrude outwardly, respectively, and a cylindrical exterior body formed by turning inside out a hose having the same structure as a fire hose made by forming a lining layer on the inner circumferential surface of a jacket made of synthetic-fiber warps and synthetic-fiber wefts being woven into a cylindrical shape, or a cylindrical exterior body prepared by

applying a painting onto a cylindrical fabric, the exterior body accommodating the airtight body, cover body and interior body in a state that the tip portions of at least the connector with check valve and the safety valve protrude from one end portion of the exterior body outwardly, and being formed in the shape of a flat bag in a state that both end portions are closed.

2. A thin air jack comprising an airtight body which is formed in the shape of a bag having a sealed structure with a film, an air supply hose whose base end portion is inserted into the airtight body in an airtight manner and which has a branch joint provided at its tip portion, a connector with check valve and a safety valve connected to the air supply source connected to the branch joint, respectively, a cover body which is formed in the shape of a bag with a synthetic resin material , and which accommodates the airtight body in a state that the tip portion of the air supply hose protrudes outwardly, an interior body which is formed with a woven fabric made of synthetic fiber in the shape of a bag and which accommodates the airtight body and cover body in a state that the tip portion of the air supply hose protrudes outwardly, and a cylindrical exterior body formed by turning inside out a hose having the same structure as a fire hose

made by forming a lining layer on the inner circumferential surface of a jacket made of synthetic-fiber warps and synthetic-fiber wefts being woven into a cylindrical shape, or a cylindrical exterior body prepared by applying a painting onto a cylindrical fabric, the exterior body accommodating the airtight body, cover body and interior body in a state that the tip portions of at least the connector with check valve and the safety valve protrude from one end portion of the exterior body outwardly, and being formed in the shape of a flat bag in a state that both end portions are closed.

3. The thin air jack according to claim 1, wherein the airtight body is formed to have a sealed structure in the shape of a rectangular bag with a multilayer film or single-layer film having excellent gas barrier property, has hose attachment cylindrical parts into which the base end portions of the air supply hose and valve attachment hose are inserted, respectively, on its opposing two sides in an inclined attitude, and the air supply hose and valve attachment hose have their base end portions inserted into the hose attachment cylindrical parts of the airtight body, respectively, and part or all of the outer circumferential surfaces of the hose attachment cylindrical parts is fastened

in an airtight manner by fastening means to prevent falling off.

4. The thin air jack according to claim 2, wherein the airtight body is formed to have a sealed structure in the shape of a rectangular bag with a multilayer film or single-layer film having excellent gas barrier property, has a hose attachment cylindrical part into which the base end portion of the air supply hose is inserted on one of its sides in an inclined attitude, and the air supply hose has its base end portion inserted into the hose attachment cylindrical part of the airtight body, and part or all of the outer circumferential surface of the hose attachment cylindrical part is fastened in an airtight manner by fastening means to prevent falling off.

5. The thin air jack according to claim 3 or 4, wherein the multilayer film is made of a nylon multilayer film, and the single-layer film is made of a thermoplastic polyurethane film.

6. The thin air jack according to claim 3, wherein the hose attachment cylindrical parts of the airtight body and the base end portions of the air supply hose and valve attachment hose are positioned on the inside of the airtight body, and

the tip portions of the air supply hose and valve attachment hose are positioned on the outside of the airtight body.

7. The thin air jack according to claim 4, wherein the hose attachment cylindrical part of the airtight body and the base end portions of the air supply hose are positioned on the inside of the airtight body, and the tip portion of the air supply hose is positioned on the outside of the airtight body.

8. The thin air jack according to claim 3 or 4, wherein opposing two sides of the airtight body with no hose attachment cylindrical part provided are folded inwardly, respectively.

9. The thin air jack according to claim 3, wherein the insertion lengths of the air supply hose and the valve attachment hose into the hose attachment cylindrical parts of the airtight body are 3 cm or longer, respectively.

10. The thin air jack according to claim 4, wherein the insertion length of the air supply hose into the hose attachment cylindrical part of the airtight body is 3 cm or longer, respectively.

11. The thin air jack according to claim 3, wherein adhesive layers are interposed between outer circumferential surfaces

of the base end portions of the air supply hose and valve attachment hose and an inner circumferential surface of the hose attachment cylindrical parts of the airtight body, respectively.

12. The thin air jack according to claim 4, wherein adhesive layers are interposed between an outer circumferential surface of the base end portion of the air supply hose and an inner circumferential surface of the hose attachment cylindrical part of the airtight body.

13. The thin air jack according to claim 1 or 2, wherein a reinforcing piece made of a tape or cloth or resin sheet is affixed onto part or all of both sides of the outer circumferential edge of the airtight body.

14. The thin air jack according to claim 1 or 2, wherein the connector with check valve is a one-touch joint type coupler with check valve.

15. The thin air jack according to claim 1, wherein the cover body is formed in the shape of a rectangular bag having at least one of the sides being open with a synthetic resin tube or synthetic resin sheet, and withdrawal holes for pulling out the tip portion sides of the air supply hose and valve attachment hose to the outside, respectively, are formed on the sides neighboring the open side.

16. The thin air jack according to claim 2, wherein the cover body is formed in the shape of a rectangular bag having at least one of the sides being open with a synthetic resin tube or synthetic resin sheet, and a withdrawal hole for pulling out the tip portion side of the air supply hose to the outside is formed on the side neighboring the open side.

17. The thin air jack according to claim 1 or 2, wherein the interior body comprises a band-shaped woven fabric made of synthetic fiber, both end portions of the band-shaped woven fabric are overlapped and the overlapping portions are attached by sewing or adhered, and the airtight body and cover body are accommodated in the inside of the interior body to retain both end portions of the airtight body by the inner face of the interior body.

18. The thin air jack according to claim 1, wherein the exterior body is formed of a hose having the same structure as a fire hose turned inside out and made by forming a lining layer made of a thermoplastic polyurethane elastomer on the inner circumferential surface of a jacket woven cylindrically with warps made of synthetic fiber and wefts made of synthetic fiber, or formed of a cylindrical fabric having a painting thereon, and is formed in the shape of a flat bag by closing the openings in both end portions of the fire hose or

cylindrical fabric by at least one of metal fittings, welding and attachment by sewing in a state that the tip portions of at least the connector with check valve and the safety valve protrude to the outside from the openings of the base end portion of the exterior body.

19. The thin air jack according to claim 2, wherein the exterior body is formed of a hose having the same structure as a fire hose turned inside out and made by forming a lining layer made of a thermoplastic polyurethane elastomer on the inner circumferential surface of a jacket woven cylindrically with warps made of synthetic fiber and wefts made of synthetic fiber, or formed of a cylindrical fabric having a painting thereon, and is formed in the shape of a flat bag by closing the openings in both end portions of the fire hose or cylindrical fabric by at least one of metal fittings, welding and attachment by sewing in a state that the tip portions of at least the connector with check valve and the safety valve protrude to the outside from the opening of the base end portion of the exterior body.

20. The thin air jack according to claim 1 or 2, wherein part of the air supply hose and part of the exterior body are fixed by a caulking process with a metal ring.