【CLAIMS】

【Claim 1】

A thermoplastic cast comprising:

a structure having a mesh form in which openings each having a polygonal shape are formed and a thermoplastic property;

an outer cover provided on an outer surface of the structure;

a buffer pad provided on an outer surface of the outer cover and having elasticity; and

a first layer formed between the buffer pad and the outer cover and having a porosity different from porosities of the buffer pad and the outer cover;

wherein the outer cover covers the structure such that the outer cover has the mesh form in which the openings are formed and is made of rubber,

wherein the buffer pad has the mesh form in which the openings are formed and is made of foam,

wherein the first layer connects the outer cover and the buffer pad and has the mesh form in which the openings are formed,

wherein melting points of the outer cover, the buffer pad, and the first layer are higher than a melting point of the structure,

wherein a porosity of the first layer is less than a porosity of the buffer pad,

wherein the first layer and the buffer pad are deformed together with the structure thanks to the openings when the structure is deformed to fit a fractured part of a patient’s body, and

wherein the first layer and the buffer pad prevent to the outer cover from extending thanks to connecting to the outer cover when the structure is deformed to fit a fractured part of a patient’s body.

【Claim 2】

The thermoplastic cast of claim 1, further comprising a finishing material provided on an outer surface of the buffer pad and configured to come into contact with a user’s body, and

a second layer formed between the buffer pad and the finishing material and having a porosity different from porosities of the buffer pad and the finishing material.

【Claim 3】

The thermoplastic cast of claim 2, wherein the second layer has a higher melting point than the melting point of the structure.

【Claim 4】

The thermoplastic cast of claim 1, further comprising:

a finishing material provided on an outer surface of the buffer pad and configured to come into contact with a user’s body;

and

a second layer formed between the buffer pad and the finishing material and having a porosity different from porosities of the buffer pad and the finishing material,

wherein the porosity of the first layer is different from the porosity of the second layer.