## CLAIMS

[Claim 1] An electric submersible pump comprising:

a casing (11) including a flow path (15) having a spiral shape, and a suction port (12) for drawing liquid into the flow path;

a closed impeller (4) including a vane portion (41), a main plate (42) holding the vane portion, and a side plate (43) opened on the suction port side of the casing; and

an electric motor (3) including a main shaft connected to the closed impeller, wherein

the casing includes a suction flow-path portion (14) that faces the closed impeller, has the suction port protruding in a convex shape and is formed integrally with the casing; and

a vane width, which is a height of the closed impeller including the vane portion and the main and side plates in an extension direction of the main shaft, is smaller by a protrusion height of the suction flow-path portion in the extension direction of the main shaft than a maximum depth of the flow path of the casing in the extension direction of the main shaft.

[Claim 2] The electric submersible pump according to claim 1, wherein the suction flow-path portion has a cylindrical shape extending from the suction port side toward the closed impeller side.

[Claim 3] The electric submersible pump according to claim 2, wherein

the side plate of the closed impeller has an opening opened on the suction flow-path portion side; and

an inside diameter of the opening is substantially the same as an inside diameter of the suction flow-path portion on an end of the closed impeller side as viewed in the extension direction of the main shaft.

[Claim 4] The electric submersible pump according to any of claims 1 to 3, wherein the casing and the suction flow-path portion are integrally formed of a resin.

[Claim 5] The electric submersible pump according to any of claims 1 to 3, wherein

the side plate of the closed impeller has an opening opened on the suction flow-path portion side; and

the opening and the suction flow-path portion are spaced at an interval not greater than 5 mm from each other in the extension direction of the main shaft.

[Claim 6] The electric submersible pump according to any of claims 1 to 3, wherein the protrusion height of the suction flow-path portion in the extension direction of the main shaft is not smaller than 20% of the maximum depth of the flow path in the extension direction of the main shaft.

[Claim 7] The electric submersible pump according to any of claims 1 to 3, wherein the casing includes

an exhaust port (16) for exhausting air in the casing,

a sealing member (17) arranged below the exhaust port and configured to be pushed upward by the liquid so as to seal the exhaust port when the liquid is drawn, and

a base portion (18) configured to receive the sealing member and to form an upward flow of the liquid for pushing the sealing member toward the exhaust port.

[Claim 8] The electric submersible pump according to claim 7, wherein the base portion has a generally V shape.