an apartment or other multi-family building, this may cause a short circuit or current leakage in the ceiling fan in the downstairs room. Specifically, the water spilled in the upstairs room may run down along the suspending unit of the ceiling fan in the downstairs room, and enter the motor through the openings of the upper body cover.

Citation List

Patent Literature

Patent Literature 1: Japanese Patent Unexamined Publication No. 2010-169001

SUMMARY OF THE INVENTION

The ceiling fan of the present invention includes a suspending unit fixed to a ceiling; and a ceiling fan body suspended by the suspending unit. The ceiling fan body includes a shaft configured to be suspended by the suspending unit; a motor fixed at the bottom of the shaft; a plurality of blades attached to the motor; an upper body cover disposed on the upper surface of the motor; and a lower body cover covering the motor. The upper body cover has a first opening, at a central part, for passing the shaft therethrough; and a second opening outside the first opening. The upper body cover rotates with the blades and has a first wall standing vertically between the first opening and the second opening.

With this configuration, even if water droplets from the ceiling fall in between the first opening and the first wall, the water droplets are forced outward along the upper surface of the upper body cover by the centrifugal force generated by the rotation of the upper body cover,

an apartment or other multi-family building, this may cause a short circuit or current leakage in the ceiling fan in the downstairs room. Specifically, the water spilled in the upstairs room may run down along the suspending unit of the ceiling fan in the downstairs room, and enter the motor through the openings of the upper body cover.

Citation List

Patent Literature

Patent Literature 1: Japanese Patent Unexamined Publication No. 2010-169001

SUMMARY OF THE INVENTION

A ceiling fan of the present disclosure comprises:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and

a lower body cover covering the motor,

the upper body cover having a first opening at a central part for passing the shaft therethrough, and a second opening outside the first opening,

wherein the upper body cover rotates with the blades and

has a cylindrical first wall standing vertically between the first opening and the second opening, the first wall protruding upwardly from the upper body cover.

A ceiling fan of the present disclosure may instead comprise:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and

a lower body cover covering the motor,

the upper body cover having a first opening at a central part for passing the shaft therethrough, and a second opening outside the first opening,

wherein the upper body cover rotates with the blades and has a first wall standing vertically between the first opening and the second opening, and wherein the first wall is adjacent to the second opening.

A ceiling fan of the present disclosure may alternatively comprise:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and

a lower body cover covering the motor,

the upper body cover having a first opening at a central part for passing the shaft

therethrough, and a second opening outside the first opening,

wherein the upper body cover rotates with the blades and has a first wall standing

vertically between the first opening and the second opening,

wherein the upper body cover has a second inclined surface outside the first wall, inclining downward in the outward direction from the first wall; and the second opening is formed in the second inclined surface.

A ceiling fan of the present disclosure may comprise:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and

a lower body cover covering the motor,

the upper body cover having a first opening at a central part for passing the shaft therethrough, and a

second opening outside the first opening,
wherein the upper body cover rotates with the blades and has a first wall standing
vertically between the first opening and the second opening, and
wherein the upper body cover further includes a second wall standing around the
shaft along a periphery of the first opening.

A ceiling fan of the present disclosure may alternatively comprise:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and a lower body cover covering the motor,
the upper body cover having a first opening at a central part for passing the shaft
therethrough, and a second opening outside the first opening,
wherein the upper body cover rotates with the blades and has a first wall standing vertically between the first opening and the second opening, and the ceiling fan further comprises an outer cover covering a periphery of the suspending unit and the upper body cover.

A ceiling fan of the present disclosure may instead

comprise:

a suspending unit fixed to a ceiling; and

a ceiling fan body suspended by the suspending unit, the ceiling fan body including:

a shaft configured to be suspended by the suspending unit;

a motor fixed at a bottom of the shaft;

a plurality of blades attached to the motor;

an upper body cover disposed on an upper surface of the motor; and

a lower body cover covering the motor,

the upper body cover having a first opening at a central part for passing the shaft therethrough, and a second opening outside the first opening,

wherein the upper body cover rotates with the blades and has a first wall standing vertically between the first opening and the second opening,

wherein the upper body cover has a first inclined surface inclining downward in an

outward direction between the first opening and the first wall, and

wherein the first wall includes a groove communicating between the first inclined surface and an outside of the second opening by way of a guide unit located between the second openings.

With this configuration, even if water droplets from the ceiling fall in between the first opening and the first wall, the water droplets are forced outward along the upper surface of the upper body cover by the centrifugal force generated by the

rotation of the upper body cover.