Claims :

1. A hoist for an elevator, comprising a motor having a body frame and an output shaft, a sheave mounted in the output shaft, a brake drum arranged coaxially with the sheave to be rotatable together with the sheave, a brake shoe capable of sliding on the brake drum to brake a rotation of the sheave, and a brake device connectable to the brake shoe so that the brake shoe is pressed by the brake device against the brake drum in a pressing direction,

wherein the brake shoe is capable of being made connected to and disconnected from the brake device by rotating the brake shoe on an axis parallel to the pressing direction,

the hoist further comprises a brake shoe guide passage capable of receiving therein the brake shoe so that the brake shoe is restrained by the brake shoe guide passage from rotating on the axis, and a brake device shifting device through which the brake device and the body frame are connectable to each other so that the brake device is allowed by the brake device shifting device to be located at a first position where the brake shoe is arranged in the brake shoe guide passage when the brake device is connected to the brake shoe to be pressed against the brake drum and so that the brake device is located by the brake device shifting device at a second position where the brake shoe is arranged at the outside of the brake shoe guide passage to enable the brake shoe to be rotated on the axis when the brake shoe needs to be disconnected from the brake device.

2. The hoist according to claim 1, wherein the brake device shifting device has a brake device holding member arranged on the body frame, a floating spring for urging the brake device in a radially outward direction of the brake drum, and a positioning bolt arranged on the brake device holding member to hold the brake device at the first position against the floating spring.

3. The hoist according to claim 1 or 2, wherein the brake shoe guide passage is formed in the body frame, and is contactable with the brake shoe when the brake shoe slides on the brake drum.

4. The hoist according to any one of claims 1-3, wherein the brake device has a rod, the rod has at its front end, an engage piece including a pair of long sides and a pair of short sides as seen along the axis, and the brake shoe has an engage member capable of engaging with the pair of long sides and prevented from engaging with the pair of short sides.

5. An elevator equipment comprising a passenger cage descending and ascending in a hoistway, a main cable suspending the passenger cage, and a hoist for driving the main cable to descend and ascend the passenger cage,

wherein the hoist comprises a motor having a body frame and an output shaft, a

sheave mounted in the output shaft, a brake drum arranged coaxially with the sheave to be rotatable together with the sheave, a brake shoe capable of sliding on the brake drum to brake a rotation of the sheave, and a brake device connectable to the brake shoe so that the brake shoe is pressed by the brake device against the brake drum in a pressing direction,

wherein the brake shoe is capable of being made connected to and disconnected from the brake device by rotating the brake shoe on an axis parallel to the pressing direction,

the hoist further comprises a brake shoe guide passage capable of receiving therein the brake shoe so that the brake shoe is restrained by the brake shoe guide passage from rotating on the axis, and a brake device shifting device through which the brake device and the body frame are connectable to each other so that the brake device is allowed by the brake device shifting device to be located at a position where the brake shoe is arranged in the brake shoe guide passage when the brake device is connected to the brake shoe to be pressed against the brake drum and so that the brake device is located by the brake device shifting device at another position where the brake shoe is arranged at the outside of the brake shoe guide passage to enable the brake shoe to be rotated on the axis when the brake shoe needs to be disconnected from the brake device.

Claims

1. A hoist for an elevator, comprising a motor having a body frame, a sheave mounted in an output shaft of the motor, a brake drum arranged coaxially with the sheave to be rotatable together with the sheave, a brake shoe sliding on the brake drum to brake a rotation of the sheave, and a brake device pressing the brake shoe against the brake drum,

wherein the brake shoe is formed to be capable of being connected to and disconnected from the brake device by rotating in a plane perpendicular to a direction in which the brake show is pressed against the brake drum, and

the brake device is attached to the body frame through a brake device shifting device which is fixed, during a normal time with being connected to the brake shoe, at a position where the brake shoe is arranged in a brake shoe guide passage formed by a guide restraining the brake shoe from rotating in the plane perpendicular to the direction in which the brake show is pressed against the brake drum, and which moves, when the brake shoe needs to be disconnected from the brake device, the brake device to another position where the brake shoe is arranged at the outside of the brake shoe guide passage.

2. The hoist according to claim 1, wherein the brake device shifting device has a brake device holding member arranged on the body frame, a floating spring urging the brake device in a radially outward direction of the brake drum, and a positioning bolt arranged on the brake device holding member to hold the brake device at the fixing position against the floating spring.

3. The hoist according to claim 1 or 2, wherein the brake shoe guide passage is formed in the body frame, and contacts with the brake shoe when the brake shoe slides on the brake drum.

4. The hoist according to any one of claims 1-3, wherein the brake device has a rod, the rod has at its front end, an engage piece including a long side and a short side in the plane perpendicular to the direction in which the brake show is pressed against the brake drum, and the brake shoe has an engage member prevented from engaging with the short side and engaging with the long side.

5. An elevator equipment comprising a passenger cage descending and ascending in a hoistway, a main cable suspending the passenger cage, and a hoist for driving the main cable to descend and ascend the passenger cage,

wherein the hoist comprises a motor having a body frame, a sheave mounted in an output shaft of the motor, a brake drum arranged coaxially with the sheave to be rotatable together with the sheave, a brake shoe sliding on the brake drum to brake a rotation of the

sheave, and a brake device pressing the brake shoe against the brake drum,

wherein the brake shoe is formed to be capable of being connected to and disconnected from the brake device by rotating in a plane perpendicular to a direction in which the brake show is pressed against the brake drum, and

the brake device is attached to the body frame through a brake device shifting device which is fixed, during a normal time with being connected to the brake shoe, at a position where the brake shoe is arranged in a brake shoe guide passage formed by a guide restraining the brake shoe from rotating in the plane perpendicular to the direction in which the brake show is pressed against the brake drum, and which moves, when the brake shoe needs to be disconnected from the brake device, the brake device to another position where the brake shoe is arranged at the outside of the brake shoe guide passage.