CLAIMS

1. A terracotta tile roof hanging system, comprising:

a keel seat, which includes a horizontally distributed base, a back seat arranged vertically upward on the base, and supporting seats arranged vertically upward at both ends of the base, the supporting seats being lower than the back seat in height;

a semicircular terracotta tile mounting assembly, which includes a hanging seat that is adjustable along a Z direction on the back seat of the keel seat, wherein a cambered plate that matches a curvature of a semicircular terracotta tile extends from each end of the hanging seat in an X direction, and an insertion connection member connectable to a slot of the semicircular terracotta tile is arranged on the cambered plate in a normal direction;

shaft seats symmetrically arranged on both sides of the back seat of the keel seat in the X direction through a transverse bolt, each of the shaft seats being provided with a shaft hole opened in a Y direction; and

a planar terracotta tile mounting assembly, which includes a U-shaped auxiliary frame with a notch oriented in the X direction and a shaft plate arranged on the U-shaped auxiliary frame extending in an orientation opposite to the notch, wherein a tail end of the shaft plate is in a shape of a ball head and is hinged in the shaft hole of the shaft seat, wherein the notch of the U-shaped auxiliary frame serves as a mounting clamping opening for a planar terracotta tile, and at least one frame plate of the U-shaped auxiliary frame arranged in the X direction is penetrated and connected with a locking bolt arranged in the Z direction.

2. The terracotta tile roof hanging system according to claim 1, wherein the hanging seat is provided with a through trench extending in the Y direction, and the hanging seat is sleeved on the back seat of the keel seat through the through trench, wherein the hanging seat is adjustably mounted on the back seat of the keel seat through an adjustment bolt passing through the hanging seat along the Z direction.

3. The terracotta tile roof hanging system according to claim 1, wherein a clamping slot is provided on the supporting seat, and a rubber strip is clamped in the clamping slot.

4. The terracotta tile roof hanging system according to claim 1, wherein multiple sets of fixing bolts arranged along the Y direction are symmetrically provided on the base of the keel

seat on both sides of the back seat.

5. The terracotta tile roof hanging system according to claim 1, wherein the insertion connection member is Y-shaped.

6. A terracotta tile mounting method, using the terracotta tile roof hanging system according to claim 4, comprising:

mounting keel seats of terracotta tile roof hanging systems on a mounting structure of an antique building through fixing bolts, wherein each keel seat corresponds to a position of each row of semicircular terracotta tiles to be mounted;

at least arranging two shaft seats and two planar terracotta tile mounting assemblies along a length direction of each planar terracotta tile on each width-wise side of the planar terracotta tile at a to-be-mounted position, wherein the planar terracotta tile mounting assemblies are symmetrically arranged on the keel seat through the shaft seats;

clamping a side of each planar terracotta tile in the mounting clamping openings of the two planar terracotta tile mounting assemblies through buffer gaskets and locking the side of the planar terracotta tile with locking bolts;

adjusting an angle of installation surface of the planar terracotta tile by adjusting a rotation angle of the shaft plate of the corresponding planar terracotta tile mounting assembly in the shaft hole of the shaft seat around the Y direction;

adjusting an installation slope of the planar terracotta tile by adjusting a height of the shaft seat relative to the keel seat;

at least arranging two semicircular terracotta tile mounting assemblies along the length direction of each semicircular terracotta tile at the to-be-mounted position, with each of the semicircular terracotta tile mounting assemblies arranged on the keel seat; and adjusting an installation slope of the semicircular terracotta tile by adjusting a height of each semicircular terracotta tile mounting assembly relative to the keel seat;

inserting the semicircular terracotta tiles through the slots into the insertion connection members of the semicircular terracotta tile mounting assemblies on both ends, so as to hang the semicircular terracotta tile on the semicircular terracotta tile mounting assemblies, wherein the semicircular terracotta tile covers part of the planar terracotta tile and is spaced above the planar terracotta tile, wherein an end surface of the semicircular terracotta tile is aligned with an end

surface of the planar terracotta tile in the length direction; and

arranging a baffle between adjacent semicircular terracotta tiles in the length direction to prevent moving of adjacent semicircular terracotta tiles and adjacent planar terracotta tiles in the length direction.

7. The terracotta tile mounting method according to claim 6, wherein backside adhesive tapes are provided on lower surfaces of the planar terracotta tiles and lower surfaces of the semicircular terracotta tiles before mounting the planar terracotta tiles and the semicircular terracotta tiles.

8. The terracotta tile mounting method according to claim 6, wherein the planar terracotta tiles are placed on and connected to the supporting seats of the keel seat through buffer gaskets provided on the supporting seats; or clamping slots are provided on the supporting seats of the keel seat and rubber strips are clamped in the clamping slots, and the planar terracotta tiles are placed on and connected to the supporting seats through the rubber strips.

9. The terracotta tile mounting method according to claim 6, wherein the semicircular terracotta tile mounting assemblies and/or the planar terracotta tile mounting assemblies are made of a single metal material or an alloy material.