424, as shown in FIG. 5, for example, the upward angle can be in a range of 5 ° to 10°. The configuration of the upward angle can prevent the fan blades 4 from interfering each other during the folding process.

[0030] A support rib 36 is disposed in the receiving portion 31 and extended toward the fixed shaft 21, and the support rib 36 has a curved support face 361 formed on a circumferential side thereof and slidably abutted with the circumferential side of the fixed shaft 21. The support rib 36 is extended from an inner portion of the upper cover 34. With the configuration of the curved support face 361 of the support rib 36 slidably abutted with the circumferential side of the fixed shaft 21, the fixed shaft 21 can be prevented from being axially deformed subject to the engaging and rotating force of the gear member 43, so as to make the engagement between the gear member 43 and the fixed shaft 21 and the engaging and rotating process between the gear member 43 and the fixed shaft 21 more stable. In an embodiment, the fixed teeth 22 of the fixed shaft 21 and the rotation teeth 431 of the gear member 43 can be implemented as similar bevel gear types.

[0031] The adaptor 3 comprises a rotary disc 5 fixed thereon, and the rotary disc 5 is pivoted to the blade assembly bracket 2, and the fixed shaft 21 is inserted through the rotary disc 5. The rotary disc 5 is assembled with an end of the link rod 51, and other end of the link rod 51 is assembled with the rotary disc 5 of another blade assembly bracket 2, so that the fan blades 4 can be simultaneously driven to fold and unfold.

[0032] The present invention disclosed herein has been described by means of specific embodiments. However, numerous modifications, variations and enhancements can be made thereto by those skilled in the art without departing from the spirit and scope of the disclosure set forth in the claims.

WHAT IS CLAIMED IS:

1. An assembly of a blade assembly bracket and a blade of a ceiling fan, comprising:

a blade assembly bracket assembled with an end of a fixed shaft, and wherein the fixed shaft has a plurality of fixed teeth formed and arranged annularly on other end thereof;

an adaptor pivoted to the blade assembly bracket, and comprising a receiving portion, and a through hole and a rotary hole respectively formed on circumferential sides thereof and in communication with the receiving portion axially and radially, wherein the end of the fixed shaft with the plurality of fixed teeth is inserted through the through hole and located inside the receiving portion; and

a fan blade comprising a blade, a rotatable holder, and a gear member, wherein two ends of the rotatable holder are respectively assembled with the blade and the gear member, and a portion, assembled with the blade, of the rotatable holder is exposed out of the rotary hole of the adaptor, and a portion, assembled with the gear member, of the rotatable holder is pivoted through the rotary hole, wherein the gear member is disposed in the receiving portion and has a plurality of rotation teeth engaged with the plurality of fixed teeth, and when the adaptor is pivoted relative to the blade assembly bracket, the plurality of rotation teeth of the gear member are engaged and rotated along the plurality of fixed teeth of the fixed shaft, and the gear member simultaneously drives the rotatable holder and the blade to switch between an initial position and a rotational position, to change an inclination angle of the blade.

2. The assembly according to claim 1, wherein the rotary hole has a ring groove formed thereon, and a stopper protrusion disposed on a groove bottom face of the ring groove, and the rotatable holder has a curved rib slidably disposed in the ring groove, and the stopper protrusion is accommodated in a notch formed between

two ends of the curved rib, a length size of the notch is larger than a length size of the stopper protrusion, and a rotation range of the rotatable holder is limited when the two ends of the curved rib are abutted against the two ends of the stopper protrusion, respectively, so that a position of the rotatable holder is changed from an initial position to a rotational position with an inclination angle.

3. The assembly according to claim 2, wherein the inclination angle is in a range of 7° to 20°.

4. The assembly according to claim 2, wherein the adaptor comprises an upper cover and a lower base connected to each other, the upper cover and the lower base are recessed inwardly and opposite to each other to form the receiving portion, the through hole is formed on the lower base, the rotary hole is formed on connection portions of the upper cover and the lower base, the stopper protrusion is disposed on the lower base.

5. The assembly according to claim 2, wherein the rotatable holder comprises a through shaft portion and a blade assembly portion which are connected to each other, the through shaft portion is pivoted to the rotary hole, and the curved rib is disposed along an outer periphery of the through shaft portion, and the gear member is fixed with an end, opposite to the blade assembly portion, of the through shaft portion, the blade assembly portion has a blade assembly groove formed thereon, and an end of the blade is accommodated and locked in the blade assembly groove.

6. The assembly according to claim 5, wherein the through shaft portion and the blade assembly portion are not at the same horizontal level, an imaginary line is defined to horizontally extend from the through shaft portion to the blade assembly portion, and an upward angle is formed between the imaginary line and the blade assembly portion.

7. The assembly according to claim 6, wherein the upward angle is in a range of 5 ° to 10°.
8. The assembly according to claim 1, wherein the adaptor comprising a support rib disposed in the receiving portion and extended toward the fixed shaft, and the support rib has a curved support face formed on a circumferential side thereof and slidably abutted against a circumferential side of the fixed shaft.
9. The assembly according to claim 1, wherein the adaptor comprises a rotary disc fixed thereon and pivoted to the blade assembly bracket, and the fixed shaft is inserted through the rotary disc.