

ABSTRACT

A combined blade device and a combined air outlet device are disclosed. The combined blade device (100) includes a hub (110), diagonal flow blades (120), and centrifugal blades (130), where a first air inlet (140) is formed outside an edge of a first end of the hub (110), and a first air outlet (150) is formed outside an edge of a second end of the hub (110), the hub (110) is internally provided with a centrifugal cavity (111), the first end of the hub (110) is provided with a second air inlet (112), the first air inlet (140) surrounds the second air inlet (112), the second end of the hub (110) is provided with a second air outlet (113), both the second air inlet (112) and the second air outlet (113) are communicated with the centrifugal cavity (111), and the hub (110) expands gradually in a direction from the second air inlet (112) to the second air outlet (113); the diagonal flow blades (120) are connected to one side of the hub (110) that is away from the centrifugal cavity (111); and the centrifugal blades (130) are connected to the hub (110) and located in the centrifugal cavity (111), and rotating axes of the diagonal flow blades (120) and the centrifugal blades (130) coincide with each other . The combined blade device can make full use of the air inlet area at the air inlet side of the hub to increase the air inlet volume and improve the air pressure and air volume of the air outlet device.

(To be published with FIG. 1)