

Cross-Flow Fan, Molding Die, and Fluid Feeder

ABSTRACT

A cross-flow fan includes a plurality of fan blades (21) provided to be circumferentially spaced apart from each other. The fan blade (21) has an inner edge portion (26) arranged on the radially inner side to/from which air flows in/out, and an outer edge portion (27) arranged on the radially outer side to/from which air flows/in/out. Fan blade (21) has a blade surface (23) extending between the inner edge portion (26) and the outer edge portion (27). The blade surface (23) includes a pressure surface (25) arranged on the rotation direction side of the cross-flow fan and a suction surface (24) arranged on the back side of the pressure surface (25). When cut along a plane orthogonal to the rotation axis of the cross-flow fan (10), the fan blade (21) has such a blade cross-sectional shape that concave portions (57, 56) are formed at the pressure surface (25) and the suction surface (24). A plurality of concave portions (57, 57p, 57q) are formed at pressure surface (25). With such a configuration, it is possible to provide a cross-flow fan exhibiting an excellent blowing capacity, a molding die for use in production of the cross-flow fan, and a fluid feeder provided with the cross-flow fan.

FIGURE 3