

SYSTEM, METHOD, AND APPARATUS FOR STACKABLE MULTI-STAGE DIFFUSER WITH ANTI-ROTATION LUGS

ABSTRACT

[0024] A stackable multi-stage diffuser with anti-rotation lugs utilizes cast lugs and complementary recesses in the diffuser walls. When stacked in a housing, the lugs of lower diffusers nest inside the recesses of upper diffusers. The diffuser sections interlock and are mechanically locked in the housing to prevent rotation of the diffusers. Each diffuser is sealed directly to adjacent diffusers with o-rings, but do not contact or seal to the housing.

FIG. 1