CLAIMS

1. A blower for an apparatus for delivering a flow of gas, the blower comprising:
a casing including a casing ledge and a flexible or resilient member,
a stator including a first stator ledge and a second stator ledge,
wherein the casing ledge supports the first stator ledge, and the flexible or resilient member supports the second stator ledge.

2. A blower according to claim 1, further comprising:
a casing cap operatively connected to the casing, and
a vibration isolating member located between the stator and the casing cap arranged to bias the stator in a direction towards the first stator ledge.

3. A blower according to claim 2, wherein the vibration isolating member is compressible.

4. A blower according to claim 2, wherein the vibration isolating member is or comprises an elastomeric material.

5. A blower according to claim 2, wherein the elastomeric material is silicone.

6. A blower according to claim 1, wherein the flexible or resilient member is configured to flex beyond a periphery of the stator to allow removal of the stator from the casing.

7. A blower according to claim 1, wherein the casing includes a top casing and a bottom casing, which engage around their respective peripheries, with a partition between the top casing and the bottom casing.

8. A blower according to claim 7, wherein the bottom casing includes the casing cap.

9. A blower according to claim 1, comprising a plurality of bottom casing ledges and flexible or resilient members.

10. A blower according to claim 9, wherein each bottom casing ledge has a curved inner surface that substantially corresponds to the curve of the stator.

11. A blower according to claim 9, wherein the bottom casing ledges and resilient members are integrally formed with the bottom casing.

12. A blower according to claim 1, wherein the first stator ledge is a peripheral ledge that cooperates with the ledges, and the second stator ledge is a recess or the underside of the ledge under the stator peripheral ledge that cooperates with the resilient member of the casing to support the stator.

13. A blower for an apparatus for delivering a flow of gas, the blower comprising:

a casing including:

a casing cap, wherein the casing cap includes a collar defining a bearing mount recess arranged to receive a bearing mount,

wherein the bearing mount is arranged to support a bearing,

a motor chamber, wherein a first side of the motor chamber is defined by the casing cap, and a second side of the motor chamber is defined by a partition,

wherein the partition is arranged to be connected to the casing cap, and

wherein connection of the casing cap and the partition causes a preload force to be exerted on the bearing via the bearing mount.

14. A blower according to claim 13, wherein the at least part of the bearing mount is arranged to flex or resiliently deform such that another part of the bearing mount moves in a direction generally parallel to the bearing rotational axis when the force is applied to the bearing mount.

15. A blower according to claim 13 or claim 14, wherein the at least part of the bearing mount is arranged to flex or resiliently deform when a force is applied to the bearing mount such that the force translated to the bearing retained in the central bore remains generally constant as the force applied to the bearing mount increases beyond a threshold.

16. A blower according to claim 13 or claim 14, wherein the at least part of the bearing mount is arranged to flex or resiliently deform such that another part of the bearing mount moves in a direction generally parallel to the bearing rotational axis when the force is applied to the bearing mount.

17. A blower according to claim 13 or claim 14, wherein the at least part of the bearing mount is arranged to flex or resiliently deform when a force is applied to the bearing mount such that the force translated to the bearing retained in the central bore remains generally constant as the force applied to the bearing mount increases beyond a threshold.

18. A blower according to claim 13 or claim 14, wherein the partition is screwed to the bottom casing cap to secure the parts in place, which in turn secures the bottom casing in place between the bottom casing cap and the partition, and the bottom casing is sandwiched between the bottom casing cap and the partition at its rim, sealing and preventing, or at least substantially inhibiting, airflow from the inlet aperture and volute into the motor assembly.

19. A blower according to claim 13 or claim 14, wherein the bottom casing is secured to the top casing using a fastening mechanism.

20. A blower according to claim 13 or claim 14, wherein the bottom casing cap also includes fastening mechanisms that secure the bottom casing cap to the partition.

21. A blower according to claim 13 or claim 14, wherein the bottom casing cap has an alignment feature that aligns with a protruding section of the bottom casing.

22. A blower according to claim 13 or claim 14, comprising a biasing component in the form of a modified bottom casing cap, the bottom casing cap having resilient fingers integrally formed with the bottom casing cap.