

LAMINATION STACK LOCKING SYSTEM

ABSTRACT

[0028] An electrical submersible pumping system (ESP) having a stator lamination stack that is anchored to prevent the stack from spinning. The ESP includes a motor section having a housing with an axial bore. A groove circumscribes an inner surface of the housing and a snap ring is set in the groove. A portion of the snap ring projects into the bore and exerts an axial compression force onto the lamination stack. The snap ring includes a gap that aligns with a bead of material that is set in the groove; engagement between the bead and gap prevents the snap ring from spinning in the groove. The bead, that in an embodiment is a weld, can extend across all or a portion of the groove and can also provide coupling between the lamination stack and the housing.

Figure 1