

END COIL THE DOWNS

ABSTRACT

[0029] A submersible electric pump motor comprises an unvarnished stator structure having stator windings formed of conductors. The stator windings form end coils at each end of the stator for each phase. The end coils are tied to three arc-shaped, metal segments, each having an opening and positioned circumferentially within a circumferential groove. The metal segments are welded to the interior of the housing to provide a rigid surface. High temperature strings are wound through the openings in each metal segment and around the end coils for each phase to tie each end coil of that phase to that metal segment. This prevents the end coils of each phase from twisting during startup, sliding into the slots, and moving inwards towards a rotating rotor.

Figure 4