

MECHANICAL ASSEMBLY WITH INCOMPATIBLE METALLIC MATERIALS

ABSTRACT OF THE DISCLOSURE

Various parts in an assembly of parts are made of differing metals having incompatible ionization characteristics. Any two parts which have incompatible ionization characteristics are separated from one another such that corrosion inducing contact therebetween is eliminated. Therefore, the possibility of electrolytical corrosion can be reduced. For example, in one embodiment a spool assembly in a spinning reel includes a spool (12) made of a magnesium alloy mounted on a spool shaft (16). The spool shaft (16) is made of a stainless steel. Stainless steel and the magnesium alloy have ionization characteristics that are not compatible, leading to possible electrolytic corrosion therebetween. However, a sleeve (20) is disposed between the spool (12) and spool shaft (16). The sleeve (20) is made of an aluminum alloy that has ionization characteristics that are compatible with both the magnesium alloy and stainless steel.

(Fig. 12)