

PREPARATION OF AN ARTICLE SURFACE HAVING A SURFACE COMPRESSIVE TEXTURE

ABSTRACT

A method for preparing a surface includes providing an article having an article surface, thereafter first processing the article surface to establish a first residual compressive stress state and a first surface roughness in the article surface, and thereafter second processing the article surface by surface compressive texturing to establish a second residual compressive stress state and a second surface roughness in the article surface. The second surface roughness is quantitatively less than the first surface roughness, and substantially no material is removed from the article surface in the step of second processing.

Fig. 3