NOZZLE RETENTION DEVICE FOR ROCK BITS

ABSTRACT OF THE DISCLOSURE

A nozzle retention device for the retention of replaceable fluid nozzles for rock bits is disclosed. The device is preferably a sleeve secured within the body of the rock bit. A first upstream end of the sleeve communicates with a fluid plenum formed by the bit body. A second downstream end of this sleeve is adapted to receive the fluid nozzles. An arcuate fluid entrance is formed at the first upstream end of the nozzle sleeve. The arcuate fluid inlet formed by the sleeve serves to increase the flow of fluid to the nozzles, reduce turbulence of the fluid and substantially reduce the erosive effects associated with high fluid velocities and turbulent flow.

This Sheet Has Been Replaced

