

This Sheet Has Been Replaced


12

COMPOUND DIAMOND CUTTER
ABSTRACT OF THE DISCLOSURE

5 A diamond drag bit is disclosed that utilizes stud
type PDC cutters that have dome shaped polycrystalline
diamond depth of penetration limiters fused to the tungsten
carbide surface trailing the PDC compact disc. This cutter
penetration limiting diamond dome surface acts as an impact
10 or shock absorber to minimize the impact damage to the PDC
cutter when drilling laminated hard and soft rock
formations.