

I 30473/RDS/S61

**ROCK BIT WITH HARDFACING MATERIAL INCORPORATING
SPHERICAL CAST CARBIDE PARTICLES**

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Abstract of the Disclosure

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An improved hardfacing for teeth and other surfaces of milled tooth rock bits comprises steel in the range of from 20 to 50 percent by weight, and filler in the range of from 50 to 80 percent by weight. The filler is comprises spherical cast tungsten carbide particles alone or in a mixture of other tungsten carbide particles such as crushed cast spherical or crushed cemented tungsten carbide, macrocrystalline tungsten carbide, or the like. The single crystal monotungsten tungsten carbide particles have a particle size in the range of from 16 to 40 mesh and/or in the range of from 80 to 200 mesh.

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