

Title (en)  
FIXED ABRASIVE SAWING WIRE

Title (de)  
FESTER SCHLEIFSÄGEDRAHT

Title (fr)  
FIL ABRASIF FIXE DE SCIAGE

Publication  
**EP 2396134 A1 20111221 (EN)**

Application  
**EP 10704355 A 20100212**

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Abstract (en)  
[origin: WO2010092151A1] A fixed abrasive sawing wire (40) is disclosed comprising a steel wire and abrasive particles (42) fixed thereon. The steel wire has a high carbon steel, high strength, pearlitic core (14) and a low carbon ferritic steel skin(12). The particles are indented in the skin (12) and further held in position by a binder layer(18). Good sawing results have been obtained which are conjectured to be due to the use of a low carbon (or even iron) skin(12). The fixed abrasive sawing wire (40) can conveniently be used on existing wire saws for cutting silicon wafers (solar and semiconductor) or other high cost materials, but without the need for an abrasive slurry.

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