

Title (en)

PENETRATOR COMPRISING A CORE SURROUNDED BY A DUCTILE SHEATH AND PROCESS FOR MANUFACTURING SUCH A PENETRATOR

Title (de)

PENETRATOR MIT EINEM VON EINER DUKTILEM HÜLLE UMGEBENEN KERN UND VERFAHREN ZUR HERSTELLUNG SOLCH EINES PENETRATORS

Title (fr)

PENETRATEUR COMPORTANT UN COEUR ENTOURE D'UNE GAINÉ DUCTILE ET PROCEDE DE FABRICATION D'UN TEL PENETRATEUR

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Application

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Abstract (en)

[origin: WO2017013314A1] The invention relates to a heavy metal penetrator (3) having a high content of tungsten comprising a central portion or core (7) formed from an alloy comprising from 85% to 97% by weight of tungsten combined with additional metals and which is surrounded by a peripheral sheath (8) of a tungsten alloy that is more ductile than the material of the core. The sheath (8) is made from an alloy comprising from 30% to 72% by weight of tungsten, the core (7) comprising tungsten nodules bound by a matrix of a Yc gamma phase combining the tungsten with the additional metals, the two gamma phases being joined to one another continuously with no transition zone. Another subject of the invention is a process for manufacturing such a penetrator.

IPC 8 full level

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