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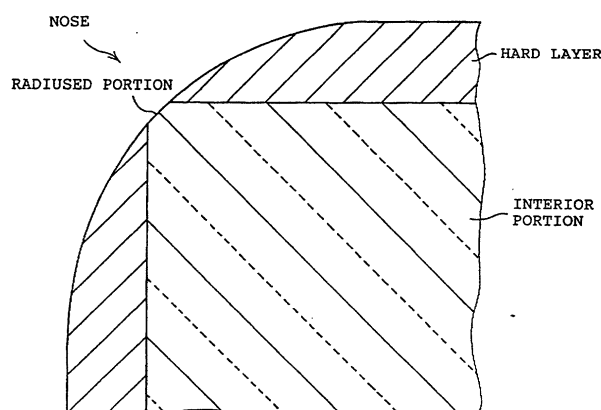
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(54) **Cermet tool and method for manufacturing the same**

(57) A cermet tool 1 is composed of a hard layer 11 which is very hard and which covers the surface of the tool 1, and an interior portion 13 which is covered with and softer than the hard layer 11. A nose 7, which comes into contact with a workpiece during cutting, is formed at a corner of the cermet tool 1. The tip of the nose 7 is

radiused through honing to curvature having a radius of 0.04 mm to 0.16 mm so as to form a radiused portion 15 where the interior portion 13 of the tool 1 is exposed. Accordingly, the hard layer 11 is disposed around the radiused portion (exposure portion) 15, and provides a cermet tool having excellent resistance to chipping and wear.

**Fig. 1**





European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 00 30 1497

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The present search report has been drawn up for all claims			
Place of search <b>MUNICH</b>		Date of completion of the search <b>13 May 2003</b>	Examiner <b>Kornmeier, M</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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