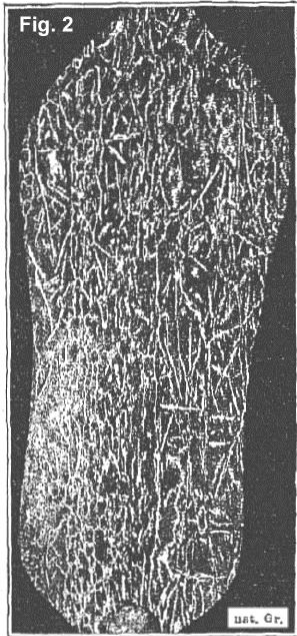
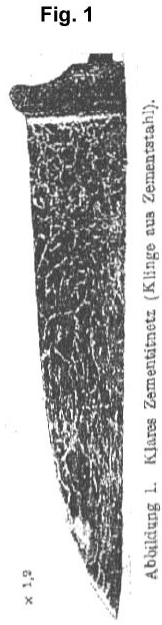


Large Pictures Chapter 11.5

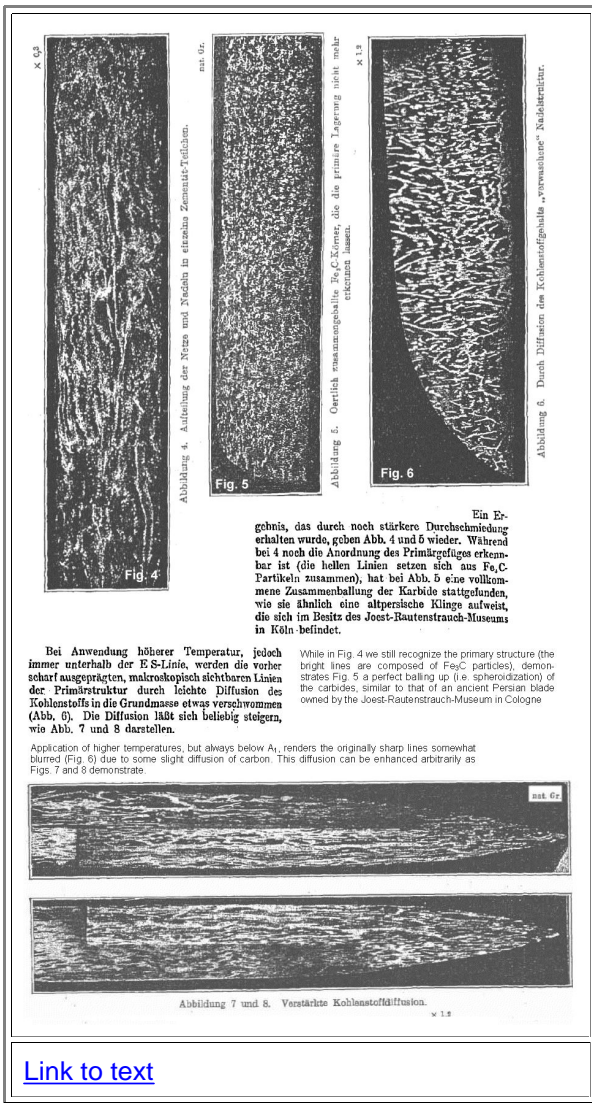
Here are 8 figures from Käthe Harnecker's 1924 "wootz" experiments. The text concerning these pictures is included; my translation. The links lead to the [full paper](#) and the [pictures](#).

Illustration



Das Jagdmesser in Abb. 1 mit einem Kohlenstoffgehalt von etwa 1,2% zeigt noch ein klares Netzwerk von Zementit (Netzdamast?), desgleichen der etwas stärker durchgeschmiedete Werkstoff in Abb. 2, in welchem jedoch neben den in der äußeren Form erhaltenen einzelne zertrümmerte Nadeln auftreten. Einen weiteren Fortschritt stellt Abb. 3 dar, die vorwiegend zerstörte Karbidformen zeigt.

The hunting knife in Fig.1 with a carbon content around 1,2% still shows a clear network of cementite ("Net damast"), just as the somewhat more strongly forged material of Fig. 2, in which, however, besides retained needles also single broken needles are found. A further progress (towards making "nice" wootz) is shown in Figure 3, showing predominantly destroyed carbide shapes.



Below is shown a "shamshir from the first half of the 19th century" that can be found in the Eremitage in St. Petersburg (far off the usual tourist stuff). It is badyl lit and one can only appreciate the double rung [Kirk Nardeban](#) pattern after processing photographs..



[Link to text](#) Source: Photographed 2015 in the Eremitage; St. Petersburg