

Title (en)  
GRINDING DISC AND GRINDING MACHINE PROVIDED WITH SAME

Title (de)  
SCHLEIFTELLER UND DAMIT AUSGESTATTETE SCHLEIFMASCHINE

Title (fr)  
DISQUE DE PONÇAGE ET MACHINE DE PONÇAGE ÉQUIPÉE D'UN TEL DISQUE

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Application  
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Abstract (en)  
[origin: WO2017025303A1] The invention relates to a grinding disc (10, 110, 210) for a grinding machine (90), wherein the grinding disc has a machine side (11) associated with the grinding machine (90) and a processing surface (12, 112, 212) associated with a processing of a work piece (V), wherein a tool holder retaining means (15) for securing to a tool holder (92) of the grinding machine (90) is arranged on the machine side (11), and a grinding means (50) for processing a work piece (V) or retaining means (33) for detachably retaining a grinding means (50) of this type are arranged on the processing surface (12, 112, 212). According to the invention, the processing surface (12, 112, 212) of the grinding disc (10, 110, 210) has a ring-shaped edge region (44, 144, 244) for forming a flat contact surface of the grinding means (50) on the work piece (V), and a central region (45, 145, 245) surrounded by the ring-shaped edge region (44, 144, 244), wherein the ring-shaped edge region (44, 144, 244) projects in front of the central region (45, 145, 245) towards the work piece (V) and/or wherein the grinding disc (10, 110, 210) has a smaller bulk modulus in the central region (45, 145, 245) than in the edge region (44, 144, 244), such that, when a contact pressure (P) is applied to the tool holder retaining means (15) in the direction of the processing surface (12, 112, 212), substantially the edge region (44, 144, 244) is loaded in the direction of the work piece (V), or same is in contact with the work piece (V), for abrasive processing of the work piece (V).

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