

Title (en)  
APPARATUS FOR ATTACHING/DETACHING GRINDING TOOL FOR GRINDER

Title (de)  
VORRICHTUNG ZUM BEFESTIGEN/LÖSEN EINES SCHLEIFWERKZEUGS FÜR EINE SCHLEIFMASCHINE

Title (fr)  
APPAREIL POUR ATTACHER/DÉTACHER UN OUTIL DE MEULAGE POUR MEULEUSE

Publication  
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Application  
**EP 14900065 A 20141127**

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Abstract (en)  
[origin: EP3067155A1] The present invention relates to a polishing holder removing device for a grinder that allows a grinding tool to be simply coupled/decoupled to/from a coupler, which is mounted on a rotary shaft of a body of a hand grinder and is rotated at a high speed, and that can ensure anti-vibration, stability, continuity, and smooth transmission of power in grinding by more firmly coupling the grinding tool to the coupler. The present invention includes a grinding tool, a coupler, a sleeve, locking balls, a spring, and a cap nut, in which a cylindrical shank, a groove, and a rectangular shank are sequentially formed at an end portion of a body of the grinding tool; the coupler has a seating hole and a rectangular hole where the grinding tool is fitted and fixed, a threaded-hole for fastening to a grinder body, and a flange having two lines of through-holes formed around the outer side; a lower dustproof groove having a step and a seating groove are formed at a side in the sleeve, and an upper dustproof groove is formed at the other side in the sleeve; the locking balls are disposed in the ball holes formed in the coupler and moved toward/away from the cylindrical shank and the groove of the grinding tool when the sleeve moves so that the grinding tool can be fixed or released; the spring applies elasticity when the sleeve slides; and the cap nut retains the sleeve.

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Citation (search report)  
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