

Title (en)

BACKING PAD FOR A HAND-GUIDED POLISHING OR SANDING POWER TOOL

Title (de)

STÜTZUNTERLAGE FÜR EIN HANDGEFÜHRTES POLIER- ODER SCHLEIFELEKTROWERKZEUG

Title (fr)

TAMPON DE SUPPORT POUR UN OUTIL ÉLECTRIQUE DE POLISSAGE OU DE SABLAGE GUIDÉ À LA MAIN

Publication

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Application

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Abstract (en)

The invention refers to a backing pad (2) for a hand-guided polishing or sanding power tool, comprising- a support layer (4) made of a rigid material, the support layer (4) comprising a connection element (6) on its top surface (8) for connection of the backing pad (2) to a driving shaft (18) or an eccentric element of the polishing or sanding power tool,- a damping layer (10) made of a resilient material, the damping layer (10) being fixedly attached to a bottom surface (12) of the support layer (4), and- an adhesive layer (14) for releasable attachment of a polishing or sanding member to the backing pad (2), the adhesive layer (14) being fixedly attached to a bottom surface (16) of the damping layer (10)It is suggested that the bottom surface (12) of the support layer (4) is provided with reinforcement elements (24, 26, 28; 46; 50, 52) for enhancing flexural rigidity of the support layer (4), and the bottom surface (12) of the support layer (4) is further provided with recesses (30) formed between and at least partially limited by the reinforcement elements (24, 26, 28; 46; 50, 52), wherein during manufacture of the backing pad (2) the resilient material of the damping layer (10) enters into the recesses (30) and after curing of the resilient material entirely fills the recesses (30).

IPC 8 full level

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Citation (search report)

- [X] US 9039496 B2 20150526 - KOLTHOFF DIETER [CH]
- [I] US 2016052102 A1 20160225 - SATO TSUKIO [JP]
- [I] US 2004127151 A1 20040701 - TAKIZAWA TOSHIKI [JP], et al
- [I] EP 0397624 A2 19901114 - ROMANINI FRANCO [IT]
- [A] US 2011045749 A1 20110224 - HARRIS JENNIFER R [US], et al
- [A] US 2005124275 A1 20050609 - WUENSCH STEFFEN [DE], et al

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