

Title (en)  
Sawing and milling tool.

Title (de)  
Säge-und Fräswerkzeug.

Title (fr)  
Outil de sciage et de fraisage.

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Application  
**EP 89850443 A 19891219**

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Abstract (en)  
The invention relates to a sawing and milling tool (1) for working primarily soft material, for instance wood. The tool includes a saw chain (20) composed of a plurality of links (21-23). The tool (1) includes a centre disc (10) of circular outer configuration. The saw chain (20) extends around the periphery of the centre disc (10) and a clearance or play is presented between the chain and the disc, such that the chain can be rotated relative to the disc when the disc is stationary. The chain links (21-23) have mutually different shapes and/or weights, such that when acted upon by centrifugal forces generated by rotation of the tool (1) the play or clearance is eliminated partially, so that the chain (20) is caused to accompany the centre disc in its rotation, as a result of frictional engagement between at least one chain link and the centre disc. The peripheral surface (12) of the centre disc (10) has formed therein a circumferentially extending guide groove (13) and the saw chain (20) includes guide links (23) which extend into the groove (13). Formed in the centre part of the disc (10) is a hole (11) by means of which the tool (1) can be mounted on a rotatable spindle of, for instance, a hand-held machine. The inventive tool can be used as a saw blade and milling blade when working, for instance, wooden workpieces. In principle, it is not necessary to lubricate the tool, despite the presence of the saw chain. The tool also incorporates a slip-guard, which is activated automatically when the saw chain becomes jammed or when an excessively high feed-pressure is applied when using the tool.

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