

Title (en)  
SAFETY RAZORS

Title (de)  
SICHERHEITSRASIERER

Title (fr)  
RASOIRS DE SURETE

Publication  
**EP 1332026 B1 20040728 (EN)**

Application  
**EP 01987704 A 20011011**

Priority  
• GB 0025339 A 20001016  
• US 0131601 W 20011011

Abstract (en)  
[origin: WO0232633A2] A safety razor blade unit (2) has blade assembly (5) comprising a plurality of parallel blades (16) mounted on a razor handle (1) by a flexible support structure (4). Each blade (16) consists of an elongate blade element having a forward edge section (50) with a sharp cutting edge (17), and a planar blade section (54) extending rearwardly from the forward edge section (50). The forward edge section is upwardly inclined by bending a blade element blank between press tooling so that in the transition region between the forward edge section (50), which extends back from the tip of the cutting edge (17) by not more than 1 mm, and the planar blade section (54), the lower surface is convex and the upper surface is concave, with the plane (Pt) bisecting the tip being at an angle of 10 DEG to 35 DEG to the mid plane (Pm) of the planar section (54). The blade (16) is positioned in the blade unit (2) with the mid plane (Pm) of the planar section parallel to a tangent plane tangential to surfaces of the guard (26) and the cap (24) of the blade unit. The tip of the cutting edge is at a height of 0.05 to 0.15 mm above the plane (Pn) of the upper surface at the planar section, and to ensure good flexibility the blade cross section has a minimum second moment of inertia not greater than  $1.0 \times 10^{-4} \text{ mm}^4$ .

IPC 1-7  
**B26B 21/56**

IPC 8 full level  
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