

Title (en)  
SCISSORS

Title (de)  
SCHERE

Title (fr)  
CISEAUX

Publication  
**EP 0930959 B1 20001213 (DE)**

Application  
**EP 98943769 A 19980722**

Priority  
• DE 19734605 A 19970809  
• EP 9804609 W 19980722

Abstract (en)  
[origin: US2002083594A1] To improve the cutting properties of a pair of scissors 1, such as hairdressing shears 11, it is proposed that at least one shank 4 be made to vibrate parallel to the longitudinal direction (6) of the blade (7) of this shank (4) by means of an electrically powered vibrator (5). The vibrator (5) may include a piezoelectric travel transducer (8), which deflects the blade (7) with an ultrasonic frequency.

IPC 1-7  
**B26B 15/00**; **B26B 13/24**

IPC 8 full level  
**B26B 13/00** (2006.01); **B26B 13/24** (2006.01); **B26B 15/00** (2006.01)

CPC (source: EP US)  
**B26B 13/24** (2013.01 - EP US); **B26B 15/00** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 2002083594 A1 20020704**; AT E198062 T1 20001215; AU 9155898 A 19990301; BR 9806089 A 19990824; CN 1229378 A 19990922; DE 19734605 A1 19990211; DE 59800385 D1 20010118; EP 0930959 A1 19990728; EP 0930959 B1 20001213; ES 2154940 T3 20010416; JP 2001501859 A 20010213; RU 2167049 C2 20010520; US 6357121 B1 20020319; WO 9907528 A1 19990218

DOCDB simple family (application)  
**US 94795801 A 20010906**; AT 98943769 T 19980722; AU 9155898 A 19980722; BR 9806089 A 19980722; CN 98800796 A 19980722; DE 19734605 A 19970809; DE 59800385 T 19980722; EP 9804609 W 19980722; EP 98943769 A 19980722; ES 98943769 T 19980722; JP 51160599 A 19980722; RU 99109469 A 19980722; US 24297999 A 19990226