

Title (en)  
ANGLE POSITIONING TOOL AND HAND-SCALER GRINDING DEVICE USING THE SAME

Title (de)  
WINKELPOSITIONIERWERKZEUG UND DIESES VERWENDENDE HANDSCHÄLERSCHLEIFVORRICHTUNG

Title (fr)  
OUTIL DE POSITIONNEMENT EN ANGLE ET DISPOSITIF D'AIGUISAGE D'UN GRATTOIR A MAIN

Publication  
**EP 1502701 A1 20050202 (EN)**

Application  
**EP 03743021 A 20030221**

Priority  
• JP 0301911 W 20030221  
• JP 2002051395 A 20020227  
• JP 0207048 W 20020711

Abstract (en)  
The object of the present invention is to provide an angle setting tool (41, 21, 81, 31) for setting the blade section (64, 74) of a hand scaler (50) at a predetermined angle during sharpening of the scaler, and a hand scaler sharpening device (10, 80, 30) which has a relatively simple structure, is easy to operate and do maintenance, and reduces complexity in the sharpening operation. This object is achieved by a hand scaler sharpening device (10, 80, 30) including a sharpener main body (11) having a grind stone (13) provided for reciprocating motion, and an angle setting tool (41, 21, 81, 31) for setting the tip (74, 74) of a hand scaler (50) at one of a plurality of predetermined angles on the grind stone (13), wherein the angle setting tool (41, 21, 81, 31) has a plurality of inclined surfaces (22a, 23a, 24a; 82a, 83a, 84a; 33a, 33b, 33c) corresponding to the predetermined angles. <IMAGE>

IPC 1-7  
**B24B 3/60**; **A61C 19/00**

IPC 8 full level  
**B24B 3/60** (2006.01); **A61C 19/00** (2006.01); **B24B 41/06** (2012.01); **B24D 15/06** (2006.01)

CPC (source: EP)  
**B24B 3/605** (2013.01); **B24B 41/066** (2013.01); **B24D 15/06** (2013.01)

Cited by  
US2017057041A1

Designated contracting state (EPC)  
AT CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 1502701 A1 20050202**; **EP 1502701 A4 20100630**; **EP 1502701 B1 20120411**; AU 2003211278 A1 20030909; WO 03072303 A1 20030904

DOCDB simple family (application)  
**EP 03743021 A 20030221**; AU 2003211278 A 20030221; JP 0301911 W 20030221