

Title (en)  
HAIR ROLLERS

Publication  
**EP 0219783 A3 19881012 (DE)**

Application  
**EP 86114119 A 19861011**

Priority  
• DE 3537374 A 19851021  
• DE 3544275 A 19851214  
• DE 8535210 U 19851214

Abstract (en)  
[origin: US4856542A] A radially expandable hair curler comprising a generally cylindrical hollow body, a detachable holding strap stretching from one longitudinal end of the body to the other, and internal mechanical device for expanding and contracting the curler body.

IPC 1-7  
**A45D 2/24**

IPC 8 full level  
**A45D 2/24** (2006.01)

CPC (source: EP US)  
**A45D 2/24** (2013.01 - EP US)

Citation (search report)  
• [A] US 2415586 A 19470211 - SAMUEL GRANT  
• [A] FR 1011323 A 19520623  
• [A] US 3623491 A 19711130 - GARRETT WILLIAM  
• [A] FR 1000538 A 19520213  
• [A] FR 1003318 A 19520317  
• [A] DE 1457397 A1 19690206 - EGER ERWIN

Cited by  
WO2007069048A3; WO9214378A1

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

DOCDB simple family (publication)  
**EP 0219783 A2 19870429; EP 0219783 A3 19881012; EP 0219783 B1 19920422**; DE 3544275 A1 19870423; DE 8535210 U1 19870115; US 4856542 A 19890815; US 5020552 A 19910604

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