

Title (en)  
Hair curler

Title (de)  
Lockenwickler

Title (fr)  
Bigoudi

Publication  
**EP 0953302 A3 20020925 (DE)**

Application  
**EP 98118594 A 19981001**

Priority  
US 6277598 A 19980420

Abstract (en)  
[origin: US6092534A] A hair roller assembly formed of a light-weight, concentrically arranged porous flexible tubular outer sleeve of plastic woven fabric-like material, perforate at least semi-flexible resilient tubular plastic inner support sleeve and a concentrically arranged perforate tubular intermediate sleeve formed of highly heat conductive material and between said outer and inner sleeves, said sleeves being surface to surface engaged with the outer sleeve positively secured to the perforate tubular inner support sleeve and said outer sleeve having spaced bands of outwardly extending flexible filament projections provided with hair-grasping hook-shaped ends.

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

IPC 8 full level  
**A45D 2/24** (2006.01); **A45D 2/36** (2006.01)

CPC (source: EP US)  
**A45D 2/2478** (2013.01 - EP US); **A45D 2/362** (2013.01 - EP US)

Citation (search report)

- [A] GB 1137098 A 19681218 - NOVORNA LONDON LTD
- [A] CH 384149 A 19641115 - BRENN ALBERTONI GEMMA [CH]
- [A] US 5711324 A 19980127 - JOHNSON LONNIE G [US], et al
- [A] DE 19600453 A1 19970710 - JUENEMANN GMBH [DE]
- [A] US 4598722 A 19860708 - DOYLE EDWARD J [US]
- [A] US 4526184 A 19850702 - CARUSO RICHARD [US]
- [A] CH 483816 A 19700115 - MITSUMOTO HEIHACHI [JP]
- [A] US 5606983 A 19970304 - MONTY LAWRENCE P [US], et al

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

DOCDB simple family (publication)  
**US 6092534 A 20000725**; AT E257659 T1 20040115; DE 59810594 D1 20040219; EP 0953302 A2 19991103; EP 0953302 A3 20020925; EP 0953302 B1 20040114; ES 2212193 T3 20040716; GB 9908957 D0 19990616; US 5901711 A 19990511

DOCDB simple family (application)  
**US 17685798 A 19981022**; AT 98118594 T 19981001; DE 59810594 T 19981001; EP 98118594 A 19981001; ES 98118594 T 19981001; GB 9908957 A 19990420; US 6277598 A 19980420