

Title (en)
PUMP DEVICE

Title (de)
PUMPVORRICHTUNG

Title (fr)
DISPOSITIF DE POMPAGE

Publication
EP 1152869 A1 20011114 (DE)

Application
EP 99955957 A 19991106

Priority
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Abstract (en)
[origin: US6612819B1] A pumping device for drawing in and delivering a liquid to a liquid dispensing device of a hair removing apparatus the pumping device includes a pump inlet and a pump outlet and a pumping element. The pumping device is formed by a first and a second housing part each having integrally formed therein a first and a second flow channel. The pumping device includes a membrane member disposed between the first and the second housing part the membrane member includes a pumping element and at least one valve element. The pump inlet is adapted to be coupled to a liquid dispensing device and the pump outlet to a liquid container.

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B26B 19/40

IPC 8 full level
A45D 34/04 (2006.01); **B26B 19/40** (2006.01); **B26B 19/48** (2006.01); **F04B 43/02** (2006.01)

CPC (source: EP US)
B26B 19/40 (2013.01 - EP US); **A45D 2026/009** (2013.01 - EP US)

Citation (search report)
See references of WO 0048797A1

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US 6612819 B1 20030902; AT E231052 T1 20030215; CN 1104311 C 20030402; CN 1334766 A 20020206; DE 19907222 A1 20000831; DE 59904068 D1 20030220; EP 1152869 A1 20011114; EP 1152869 B1 20030115; ES 2191476 T3 20030901; JP 2002541881 A 20021210; JP 4463429 B2 20100519; WO 0048797 A1 20000824

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US 93111401 A 20010816; AT 99955957 T 19991106; CN 99816230 A 19991106; DE 19907222 A 19990219; DE 59904068 T 19991106; EP 9908522 W 19991106; EP 99955957 A 19991106; ES 99955957 T 19991106; JP 2000599565 A 19991106