

Title (en)
Implement for wiping and cleaning dirt laden surfaces

Title (de)
Vorrichtung zum Wischen und Reinigen von verschmutzten Oberflächen

Title (fr)
Dispositif à essuyer et à nettoyer des surfaces sales

Publication
EP 1260171 A1 20021127 (DE)

Application
EP 02003387 A 20020214

Priority
DE 10124336 A 20010518

Abstract (en)
The bearer (1) forms a latent heat storage with fitted temperature sensor made of plastics with inbuilt thermochrome material so plastics casing acts as cleaning fluid tank. Part of the tank wall forms a heat guide, being here of reduced thickness and reinforcingly ribbed. The bearer is made of polymer material and fitted with a handle (2) hinged to the bearer base through a universal joint (6) in the center of the bearer top. The wiper (3) is a removable fleece, knitted etc or woven cloth and is fastened to the bearer. The tank has a stoppable opening for the cleaning fluid to be pumped out.

Abstract (de)
Vorrichtung zum Wischen und Reinigen von verschmutzten Oberflächen mit einem Tragkörper (1) für ein Wischelement (3), wobei der Tragkörper (1) als latenter Wärmespeicher ausgebildet ist. <IMAGE>

IPC 1-7
A47L 13/22

IPC 8 full level
A47L 1/08 (2006.01); **A47L 13/22** (2006.01)

CPC (source: EP US)
A47L 1/08 (2013.01 - EP US); **A47L 13/22** (2013.01 - EP US)

Citation (search report)

- [XY] GB 2225930 A 19900620 - GHOBRIAL ABRAAM RIAD
- [X] US 1375560 A 19210419 - EMANUEL CAMPBELL DAVID NEWTON
- [X] GB 228890 A 19250709 - WORLDS IMP VED SVEN SCHULTZ
- [Y] DE 29608844 U1 19960808 - HUANG LUNG SHEN [TW]
- [YA] DE 1809184 A1 19690724 - LITTLE INC A
- [Y] DE 19937697 C1 20010104 - PFENNIG HERBERT [DE]
- [Y] EP 1027855 A2 20000816 - DOUSS LINE S R L [IT]
- [A] US 2186140 A 19400109 - KURTZ LEONARD J
- [A] DE 20015577 U1 20001228 - CHEN HE JIN [TW], et al

Cited by
EP1283022A3; CN103054532A; US6988291B2; WO2008028757A1

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DOCDB simple family (application)
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