

Title (en)

Guard device, in particular for a roof gutter, against debris material

Title (de)

Vorrichtung zum Schutz insbesondere einer Dachrinne gegen Verunreinigungen

Title (fr)

Dispositif de protection, en particulier pour gouttière de toit, contre les débris

Publication

**EP 0903449 B1 20051123 (DE)**

Application

**EP 98117589 A 19980916**

Priority

DE 19741531 A 19970920

Abstract (en)

[origin: EP0903449A2] At least a portion of the filter pipe (18) which is located in the gutter (11) has an at least partly closed surface. Preferably edge regions (20, 21) running in the longitudinal direction of the slotted filter pipe are closed and smooth, being on either side of a longitudinal slot (25). The closed portions preferably extend over 1/4 to 1/2 of the circumference of the filter pipe in the gutter.

IPC 1-7

**E04D 13/076**

IPC 8 full level

**E04D 13/064** (2006.01); **E04D 13/076** (2006.01)

CPC (source: EP)

**E04D 13/076** (2013.01)

Cited by

GB2520691A; CZ304726B6; EP3241956A1; FR2821636A1; WO2009142733A3

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI NL PT SE

DOCDB simple family (publication)

**EP 0903449 A2 19990324; EP 0903449 A3 19990804; EP 0903449 B1 20051123**; AT E310866 T1 20051215; DE 19748585 A1 19990325; DE 59813215 D1 20051229; DK 0903449 T3 20060327; JP 3100945 B2 20001023; JP H11193605 A 19990721

DOCDB simple family (application)

**EP 98117589 A 19980916**; AT 98117589 T 19980916; DE 19748585 A 19971104; DE 59813215 T 19980916; DK 98117589 T 19980916; JP 26682098 A 19980921