

Title (en)  
Flexible attachment mechanism for controlling the downward flexing of a broom head of a push broom and flexible insert with stop limits for brush broom handles

Title (de)  
Elastisches Verbindungselement zur Kontrolle der abwärtsgerichteten Verbiegung des Besenkopfes eines Kehrbesens und elastischer Einsatz mit Anschlägen für Kehrbesenstiele

Title (fr)  
Mécanisme d'attache flexible pour contrôler la flexion vers le bas d'une tête de balai ainsi que insert flexible comprenant des butées pour le manche à balai

Publication  
**EP 1275475 A3 20030827 (EN)**

Application  
**EP 01307178 A 20010823**

Priority  
US 90537701 A 20010712

Abstract (en)  
[origin: EP1275475A2] A flexible attachment mechanism used in conjunction with push brooms having a broom handle and a broom head to provide a flexible attachment mechanism at the junction where the broom handle is connected to the broom head. The flexible attachment mechanism allows the broom head to flex up and down causing the flexible attachment mechanism to be pre-loaded when pushing with the broom handle and upon releasing the downward movement during a normal sweeping action, the pre-loaded flexible attachment mechanism springs up, which in turn causes the broom head to spring upwardly to kick the debris further away from the broom head. <IMAGE>

IPC 1-7  
**B25G 1/02**; **B25G 3/38**

IPC 8 full level  
**B25G 1/02** (2006.01)

CPC (source: EP)  
**B25G 1/02** (2013.01)

Citation (search report)  
• [AYX] DE 1166146 B 19640326 - ANSGAR VOGT  
• [DYA] US 4785489 A 19881122 - VON DOEHREN EDWARD P [US]  
• [A] FR 1121706 A 19560824  
• [DYA] US 5333345 A 19940802 - O'DONNELL JERRY L [US]

Cited by  
DE102007040514A1; DE102010013218A1; DE102010013218B4

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

DOCDB simple family (publication)  
**EP 1275475 A2 20030115; EP 1275475 A3 20030827**

DOCDB simple family (application)  
**EP 01307178 A 20010823**