

Title (en)  
DOOR DAMPER

Title (de)  
TÜRDÄMPFER

Title (fr)  
AMORTISSEUR DE PORTE

Publication  
**EP 1778049 A4 20121017 (EN)**

Application  
**EP 04774372 A 20040820**

Priority  
• KR 2004002111 W 20040820  
• KR 20040018600 U 20040630

Abstract (en)  
[origin: WO2006004237A1] Disclosed is a door damper for preventing impact and noise generated when a door for a furniture article or a sink is rapidly opened and closed and the door is impacted on a doorframe. An oil seal is disposed in a housing body so as to form an oil chamber, and a piston rod is inserted into a center portion of the oil seal. A cylinder guide and a first and second check valve are disposed at one end of the piston rod so that an oil path can be controlled, and a spring is further provided in the housing body so that an impact from a door can be absorbed. A space guide bush is disposed in an opening portion of the housing body, and a bumper fixing cap and a bumper are provided at the other end of the piston rod. According to the door damper, the impact from the door can be facilely absorbed. And also, since the oil path is widely formed, the door can be easily returned to its position even through the return spring has a small elastic force.

IPC 8 full level  
**A47B 96/00** (2006.01)

CPC (source: EP KR)  
**A47B 96/00** (2013.01 - KR); **A47B 96/16** (2013.01 - KR); **E05F 5/10** (2013.01 - EP); **F16F 9/512** (2013.01 - EP); **F16F 9/516** (2013.01 - EP); **E05Y 2900/20** (2013.01 - EP)

Citation (search report)  
• [A] EP 1378680 A1 20040107 - SALICE ARTURO SPA [IT]  
• [A] US 5927448 A 19990727 - YAMAZAKI FUMIO [JP]  
• [T] WO 2004095982 A1 20041111 - MOONJU HARDWARE CO LTD [KR]  
• See references of WO 2006004237A1

Designated contracting state (EPC)  
DE IT

DOCDB simple family (publication)  
**WO 2006004237 A1 20060112**; EP 1778049 A1 20070502; EP 1778049 A4 20121017; KR 200363475 Y1 20041001

DOCDB simple family (application)  
**KR 2004002111 W 20040820**; EP 04774372 A 20040820; KR 20040018600 U 20040630