

Title (en)  
Impact sprinkler drive system

Title (de)  
Stoßantriebssystem für Sprinkler

Title (fr)  
Système de commande d'arroseur à impact

Publication  
**EP 2193851 A1 20100609 (EN)**

Application  
**EP 10151769 A 20050715**

Priority  

- EP 05775042 A 20050715
- US 58853204 P 20040716
- US 18243405 A 20050715

Abstract (en)  
An impact sprinkler drive is provided by an impact arm or spoon (24) that rotates out of and counter-rotates into a water stream to impact and forward re-align a water emission portion (14) from which the water stream emits. The impact arm is designed to, upon sufficient rotation, interfere with the water stream to reduce back-impact and reverse re-alignment of the water stream. The impact arm (24) may be an impact spoon formed on an impact disc (22). The impact spoon (24) is configured to increase the energy for forward re-alignment of the water emission portion (14) including an increased length to permit a time delay before water flowing through the spoon applies force away from the water stream. The water acts upon spoon portions (152,166) positioned at increased radial distances so that the water acts with a greater torque arm to impart rotational energy.

IPC 8 full level  
**B05B 3/04** (2006.01)

CPC (source: EP)  
**B05B 3/0481** (2013.01)

Citation (search report)  

- [I] US 5098020 A 19920324 - COOPER RANDY J [US], et al
- [I] US 5992760 A 19991130 - KEARBY DON MICHAEL [US], et al
- [I] US 4760959 A 19880802 - GORNEY MOSHE [IL]
- [I] US 3022012 A 19620220 - SHARP CARL R, et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2193851 A1 20100609**

DOCDB simple family (application)  
**EP 10151769 A 20050715**