

Title (en)  
Improvements to trigger sprayers

Title (de)  
Verbesserungen an Spender

Title (fr)  
Améliorations portant sur des dispositifs à gachette.

Publication  
**EP 2020264 A2 20090204 (EN)**

Application  
**EP 08252628 A 20080804**

Priority  
GB 0715121 A 20070803

Abstract (en)  
A method of manufacturing a trigger sprayer in which the spray head (2) is supported by the plunger (12) instead of the dip tubes (14) during movement of the spray head to the filling point so that the dip tubes do not become damaged during manufacture. The trigger sprayer may also be provided with a closure mechanism (fig. 9-11) which improves orientation of the spray head with respect to the container.

IPC 8 full level  
**B05B 11/00** (2006.01)

CPC (source: EP)  
**B05B 11/0029** (2013.01); **B05B 11/1049** (2023.01); **B05B 15/30** (2018.01); **B05B 15/68** (2018.01); **B05B 11/1045** (2023.01); **B05B 11/1057** (2023.01); **B05B 15/652** (2018.01)

Cited by  
CN110461480A; EP3509755A4; US2012234870A1; US2012234872A1; US9827581B2; US10124357B2; US11247221B2; WO2012035445A1; US10646888B2; US10870122B2; US11406996B2; US11648575B2; US8870033B2; US8931668B2; US9919326B2; US11571703B2

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