

Title (en)
BACK-SPRAY SYSTEM AND INJECTION PISTON

Title (de)
RÜCKSPRITZSYSTEM UND EINSPRITZKOLBEN

Title (fr)
SYSTÈME DE RÉTRO-PULVÉRISATION ET PISTON D'INJECTION

Publication
EP 3827914 A4 20220105 (EN)

Application
EP 19842248 A 20190723

Priority
• US 201862703564 P 20180726
• JP 2019028761 W 20190723

Abstract (en)
[origin: EP3827914A1] A back spray system comprising an injection piston having a plunger tip (26) and a shot rod (24) with a shot rod hole (32) drilled through the length of the rod connecting a lubricating supply to a collar (30) located right directly behind the plunger tip (24). The collar (30) has a predetermined number of collar holes (40) positioned circumferentially about the collar (30) sized and positioned to dispense a precise and uniform amount of lubricant to the space between the plunger tip (24) and the shot sleeve (20). Under the collar (30) is a channel with two drilled holes (38) connected to the shot rod hole (40).

IPC 8 full level
B22D 17/20 (2006.01)

CPC (source: EP US)
B22D 17/203 (2013.01 - EP US); **B22D 17/2038** (2013.01 - EP US)

Citation (search report)
• [X1] US 5048592 A 19910917 - MUELLER ANDRE [CH]
• [X1] US 4899804 A 19900213 - HAMMERER NORMAN L [US]
• [X1] US 2015273574 A1 20151001 - FURUTANI KOUJI [JP], et al
• [X1] US 5350007 A 19940927 - MIKI ISAO [JP], et al
• See references of WO 2020022304A1

Designated contracting state (EPC)
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MX 2021000911 A 20210331; US 2021162492 A1 20210603; WO 2020022304 A1 20200130

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