

Title (en)  
Installation for automatic coupling of an injection lance to a collector unit.

Title (de)  
Vorrichtung zum automatischen Ankuppeln einer Einblaslanze an ein Sammelgefäß.

Title (fr)  
Dispositif d'accouplement automatique d'une lance d'insufflation à un collecteur.

Publication  
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Application  
**EP 91109809 A 19910614**

Priority  
LU 87761 A 19900704

Abstract (en)  
[origin: CA2043479A1] Whereas in known devices the lance is coupled to the manifold and supported by the latter during the operation, the present invention provides means for hitching the lance rigidly to a lance-carrying carriage which can be displaced along a slide rail, and means ensuring the support of the manifold with respect to the lance-carrying carriage and enabling the manifold to be displaced vertically with respect to the lance-carrying carriage , or vice versa.

IPC 1-7  
**C21C 5/46**

IPC 8 full level  
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CPC (source: EP KR US)  
**C21C 5/30** (2013.01 - KR); **C21C 5/462** (2013.01 - EP US)

Cited by  
EP0552440A3; EP0553432A1; US5333842A; DE19541199C1; US6022507A; US5374296A; EP0568578A4; DE19541199C2; DE102016223722B4; WO2014023371A1; WO9717474A1

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**EP 91109809 A 19910614**; AR 31986791 A 19910605; AT 91109809 T 19910614; AU 7938791 A 19910627; BR 9102890 A 19910702; CA 2043479 A 19910529; CN 91104155 A 19910624; CS 205191 A 19910703; DE 69112143 T 19910614; ES 91109809 T 19910614; HU 216191 A 19910627; JP 25409391 A 19910627; KR 910011333 A 19910704; LU 87761 A 19900704; PL 29094091 A 19910704; SU 5001014 A 19910703; TR 62391 A 19910702; UA 5001014 A 19910703; US 71672091 A 19910617; ZA 913885 A 19910523