

Title (en)

Lance and apparatus for the production of a liquid jet of CO₂ and its use for a surface cleaning installation

Title (de)

Lanze und Vorrichtung zur Erzeugung eines Strahles aus flüssigem CO₂ und dessen Anwendung in einer Oberflächenreinigungseinrichtung

Title (fr)

Lance et appareil de production d'un jet de CO₂ liquide, et son application à une installation de nettoyage de surfaces

Publication

EP 0882522 B1 20031217 (FR)

Application

EP 98401134 A 19980512

Priority

FR 9706872 A 19970604

Abstract (en)

[origin: EP0882522A1] The lance, designed to produce a jet of liquid CO₂, has a coupling (5) for connecting it to a pressurised source of the liquid, a progressive expansion system (3) and an outlet nozzle (9). The expansion system (3) is in the form of a capillary tube (29), especially spiral in shape. The nozzle contains a tube (91) for ejecting the liquid CO₂, and incorporates a regulator (103,109) for the outlet jet aperture, made to let in a variable air flow. The forward part (113) of the nozzle is in the form of a barrel shaped to produce carbon dioxide snow.

IPC 1-7

B08B 7/00; **B24C 1/00**; **B05B 7/06**; **B05B 1/30**

IPC 8 full level

B05B 1/30 (2006.01); **B08B 7/00** (2006.01); **B24C 1/00** (2006.01); **B24C 3/32** (2006.01); **B24C 5/02** (2006.01); **B24C 5/04** (2006.01)

CPC (source: EP)

B05B 1/304 (2013.01); **B08B 7/0092** (2013.01); **B24C 1/003** (2013.01); **B24C 3/322** (2013.01); **B24C 5/02** (2013.01); **B24C 5/04** (2013.01)

Cited by

US6491231B1; WO0074897A1; WO2008125648A1

Designated contracting state (EPC)

BE CH DE DK ES FR GR IT LI NL PT SE

DOCDB simple family (publication)

EP 0882522 A1 19981209; **EP 0882522 B1 20031217**; DE 69820532 D1 20040129; DE 69820532 T2 20041111; ES 2213263 T3 20040816; FR 2764215 A1 19981211; FR 2764215 B1 19990716

DOCDB simple family (application)

EP 98401134 A 19980512; DE 69820532 T 19980512; ES 98401134 T 19980512; FR 9706872 A 19970604