

Title (en)

AUTOMOTIVE MANIPULATOR FOR THE TREATMENT OF THE INNER SURFACE OF A ROUND PIPE OR OF A HOLLOW CYLINDRICAL CONTAINER

Publication

**EP 0076434 B1 19860319 (DE)**

Application

**EP 82108816 A 19820923**

Priority

DE 3139691 A 19811006

Abstract (en)

[origin: ES8306968A1] Cleaning device for the internal peripheral surfaces of pipelines or hollow cylindrical vessels, including instrument carriers having at least one working head being fixable in a working position and being movable along defined feed paths through the interior of the pipelines or vessels which are invisible from the outside, and instruments mounted on the at least one working head, the instruments including rotatable brushes being mounted on said working head and being pressable against inner wall surfaces to be cleaned, at least one suction nozzle being mounted on the working head and being movable into alignment with a given brush engagement region of a pipeline or vessel, an injector having a suction side connected to the suction nozzle, a discharge side and a propulsion nozzle, a propellant line feeding the propulsion nozzle of the injector from outside the pipeline or vessel, and a dust collecting bag connected downstream of the discharge side of the injector.

IPC 1-7

**B08B 9/04**; **B08B 15/04**

IPC 8 full level

**B08B 9/02** (2006.01); **B08B 9/04** (2006.01); **B08B 9/049** (2006.01); **B08B 15/04** (2006.01)

CPC (source: EP US)

**B08B 9/035** (2013.01 - EP US); **B08B 9/047** (2013.01 - EP US); **B08B 15/04** (2013.01 - EP US)

Citation (examination)

EP 0061078 A2 19820929 - KRAFTWERK UNION AG [DE]

Cited by

DE102005025736A1; GB2159911A; EP0104610A3; CN115465994A; EP0474233A1; FR2664184A1; FR2585604A1; CN116727378A; WO9913995A1

Designated contracting state (EPC)

CH FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0076434 A1 19830413**; **EP 0076434 B1 19860319**; DE 3139691 A1 19830421; ES 516236 A0 19830616; ES 8306968 A1 19830616; JP S5874177 A 19830504; US 4473921 A 19841002

DOCDB simple family (application)

**EP 82108816 A 19820923**; DE 3139691 A 19811006; ES 516236 A 19821005; JP 17442882 A 19821004; US 41959682 A 19820917