

Title (en)
DEVICE FOR CLEANING A SMOOTH-WALLED TUBE

Title (de)
REINIGUNGSVORRICHTUNG FÜR EIN GLATTWÄNDIGES ROHR

Title (fr)
DISPOSITIF DE NETTOYAGE D'UN TUBE A PAROI LISSE

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Application
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Abstract (en)
[origin: US2006130251A1] The invention relates to a device for cleaning a cylindrical or conical tube (2) having a smooth wall and placed in a horizontal or an inclined position, said device comprising: a cylindrical body (4) that has an axis X, that is suitable for being inserted axially into said tube, and that, around its periphery, has brush means (6, 7) for brushing the inside wall (1) of said tube (2); a rod (30) fastened to an end face of said body (4); and means for causing said rod (30) and said body (4) to turn about the axis X; said device being characterized by the fact that the cylindrical body (4) has a chamber (12) that is suitable for receiving a cleaning liquid and, on one of its generator lines, it has: a first orifice (14) opening out into a first end of a radial duct (17) which is disposed in said chamber (12) and whose second end (19) is disposed in the vicinity of that wall (20) of said chamber (12) which is situated facing said first orifice (14); and at least one second orifice (13, 15) open to the outside and serving to discharge a quantity of cleaning liquid by gravity when it is situated under the level (21) of the liquid in the chamber (12) while said device is turning; the first orifice (14) serving to fill said chamber (12) with cleaning liquid, and to allow air to be taken into said chamber (12) when the second end (19) of the duct (17) is disposed above the level (21) of the liquid.

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