a 2006 0150

The invention relates to the technology and equipment of the sugar- and wine-making mills, namely to a process for gas contacting with a liquid component and to a device for realization thereof and may be used at the diffusion juice treatment plants and for wine stock oxygenation in the wine-making.
The process for gas contacting with a liquid component includes formation of flares thereof, gas supply into the liquid component at its intersection with a host of gas jets in circulating-pulsating regime.
The device for gas contacting with a liquid component includes a liquid component collecting capacity (20), a gas supply box (6) with inlet branch pipe (4), a tube made in the form of an offset, consisting of an inlet branch pipe (3) for the liquid component and a feeding pipe-line (1), placed into the liquid component collecting capacity, a hollow vertical rod (2), placed coaxially to the feeding pipe-line (1), onto the lower end of which it is fixed a conic perforated valve (5), at the same time onto the rod part, placed inside the gas supply box, there are made holes. The upper end of the rod is joined with a drive (16) with the possibility of closing and opening the outlet branch pipe. The device also includes a rotation module, formed of a pair of gearwheels (8), one of which is joined by means of a groove (7) with the rod, and an electric motor (9) for rod and valve rotation. The upper part of the rod by means of a spherical articulation is joined with a pulsation module, including a body (11), wherein there are mounted a pair of conic gearwheels (12), cams (13) and a spring (15), and which is joined with the drive, equipped with a return spring (17).

Claims: 2
Fig.: 2