

[54] **CYCLONE MIXER FOR THE CONTINUOUS MIXING OF PULVERULENT SUBSTANCES WITH LIQUIDS**

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[75] **Inventor:** **Roland Karg**, Montana, Switzerland

Primary Examiner—Timothy F. Simone
Attorney, Agent, or Firm—Fleit, Jacobson, Cohn & Price

[73] **Assignee:** **Ytron Dr. Karg GmbH**, Affalterbach, Fed. Rep. of Germany

[57] **ABSTRACT**

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In a cyclone mixer for the continuous mixing of pulverulent substances with liquids, with a charging mechanism for the pulverulent substances and with a mixing chamber positioned below it and into whose upper region issues a tangential suction tube and which is provided in the lower region with a pump impeller and a dispersing apparatus surrounding the same and into whose lower region issues an outlet, it is provided according to the invention that the dispersing apparatus is constructed as a fixed lamellar ring, which is provided with uniformly circumferentially distributed baffle lamellas extending substantially radially outwards and whose inner portions immediately adjacent to the radial outer boundary of the impeller. In the case of an extremely simple construction, this apparatus ensures that despite the oppositely influencing parameters of high dispersion level and high throughput, a qualitatively and quantitatively very high efficiency is achieved.

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[30] **Foreign Application Priority Data**

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[51] **Int. Cl.⁴** **B01F 7/26; B01F 15/02**

[52] **U.S. Cl.** **366/165; 366/171; 366/181; 366/183; 366/264; 366/304; 366/305**

[58] **Field of Search** **366/76, 98, 64, 65, 366/150, 163, 164, 167, 168, 171, 194, 195, 196, 262-265, 305-307, 315, 317; 241/101 B; 415/90, 116; 417/420, 430, 431**

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4 Claims, 7 Drawing Figures

