

Abstract Of The Disclosure**POWDER ATOMIZER**

An improved powder atomizer comprising a cylindrical pan, a cylindrical resiliently deformable element, which is journaled for rotation about an axis within the pan. The pan is mounted coaxially of the element. The element and pan define a cylindrically shaped venturi therebetween into which powder is fed. The venturi has an inlet and outlet radially spaced apart. Means is provided for rotating the element within the pan at speeds in excess of that required to throw the powder from the element by centrifugal force. The element draws ambient air through the venturi and atomizes and deagglomerates powder fed into the venturi inlet thereby forming a uniformly flowing cloud of particulate material which is uniform both longitudinally and laterally of said axis. The invention also provides an atomizer feeder and an atomizer feeder combination deagglomerator combination with a feeder such as disclosed in U.S. Patent No. 5,314,090 which is particularly useful in wide web coating applications to produce a particulate cloud which is uniform both laterally and longitudinally of the web and uniform in both particulate distribution and particulate size throughout the uniformly flowing cloud.

FIG. 1

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