

Title (en)

Metering and/or feeding unit for fluid materials.

Title (de)

Mess- und/oder Abgabeeinheit für fließbares Material.

Title (fr)

Unité de mesure et/ou de distribution pour matériaux fluidisés.

Publication

EP 0087682 A1 19830907 (EN)

Application

EP 83101483 A 19830216

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- US 41400682 A 19820902

Abstract (en)

A metering and/or feeding unit for fluid materials, particularly dry particulate materials and semifluid materials, is disclosed. An elastic-walled tube (17) having an open feed end and an open discharge end is vertically oriented. A power-driven assembly, including tube rollers (28), are adapted to constrict the elastic tube (17), beginning at its upper end and progressively moving down the length of the tube. The material being metered or fed is introduced into the elastic tube at its upper end and is progressively moved down the length of the tube as the tube roller (28) of the power-driven assembly moves down the length of the tube. Valve means (39) are provided to prevent entry of material into the feed end of the tube (17) at periodic intervals and in coordination with constriction of the tube (17) so that when a tube roller (28) initially engages the tube (17) near the feed end of the tube, that portion of the tube (17) is substantially free of material. The material being fed may be discharged into a plenum (47) through which a stream of pressurized gas is discharged to convey the material to a work location.

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CPC (source: EP)

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Citation (search report)

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