

Abstract

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**"Method of Shock-Reduced Pneumatic
Plug Conveyance of Bulk Materials and Device for
Implementing the Method"**

10 Methods and devices for the conveyance of bulk materials by
a compressible conveying medium and in the form of discrete
plugs from bulk materials in pipes are known. A disadvantage
is the high-energy and abrupt expansion of the volume of the
conveying medium between the plug being discharged and the
15 one following it at the end of the pipe. This disadvantage
may be avoided in that the amount (2') of compressed
conveying medium existing in each case between plugs (1') in
sequence in the downstream end portion (12b) of the pipe as
compared to the amount (2) of compressed conveying medium
20 (2) existing between plugs (1) upstream (at 12a) of the end
portion (12b) of the pipe is reduced. This is particularly
achieved by converting the long plugs (1) into plugs of
reduced length (1'), following each other in reduced
spacing.

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(figure)