Systems have been developed which consist of a single rotary wheel and a breaking mechanism such as wire tapers or springs attached to the wheel. Typical canisters are described in U.S. patents 3,013,701 and 4,207,995 as well as 7,461,763.

US 7,461,763 provides a dispenser canister comprising a reservoir having a bottom in the form of a U-shaped throat, two terminal walls and two side walls being attached to the upper extremities of the U-shaped throat. This prior art discloses the use of the side walls which are located directly above the auger screw at approximately a 45 degree angle to allow a flow feed side and a bulk product movability side as well as to minimize pressure around the auger screw threads.

Dosing is usually performed by an auger, either a spring or screw auger. The dosing end of the canister contains an exit that directs the powder towards the mixing area as it exits. US 2003/0234261 provides such a canister in which agitating wheels are operatively associated with the rotatable volumetric dosing means to rotate in the reservoir upon actuation of the rotatable volumetric dosing means. This prior art also discloses the use of a spring auger as rotatable volumetric dosing means and of a solid insert placed within the spring auger to improve dosing consistency and reduce the dose-to-dose variation.

Yet installing pieces in the powder itself is not always recommended, for several reasons. First of all, pieces in the powder have to be compatible with edible products and should not decrease the quality of the powder. Moreover, pieces in the canister take a significant place, decreasing the volume dedicated to the powder. Finally, these pieces influence the powder density, by compressing the powder on one side of the wheel and lightening it on the other side, generating variations in the dosage.

Then there is still a need to improve powder dosing canisters in the point of view of the consistency of powder dosing and the complete evacuation of the powder out of the canister.

Summary of the invention

The invention concerns a dispensing canister comprising :

- a reservoir having a bottom in the form of a U shaped throat, two terminal walls and two side walls said side walls being attached to the upper extremities of the U shaped throat,
- a rotatable volumetric dosing means :
  . longitudinally extending through the bottom of the reservoir, and

. configured for displacing a volume of powder longitudinally through the bottom of the reservoir, and

. lodged in the U shaped throat, the upper point of the U shaped throat extending at least up to the top of the rotatable volumetric dosing means, and

wherein at least the portion of at least one of the reservoir walls attached to the U shaped throat is straight and outwardly inclined according to an angle of at most 25°, preferably at most 20°, with the vertical.

The reservoir presents two terminal walls and two side walls. The terminal walls usually include a front wall and a rear wall, the front wall corresponding to the part of the reservoir