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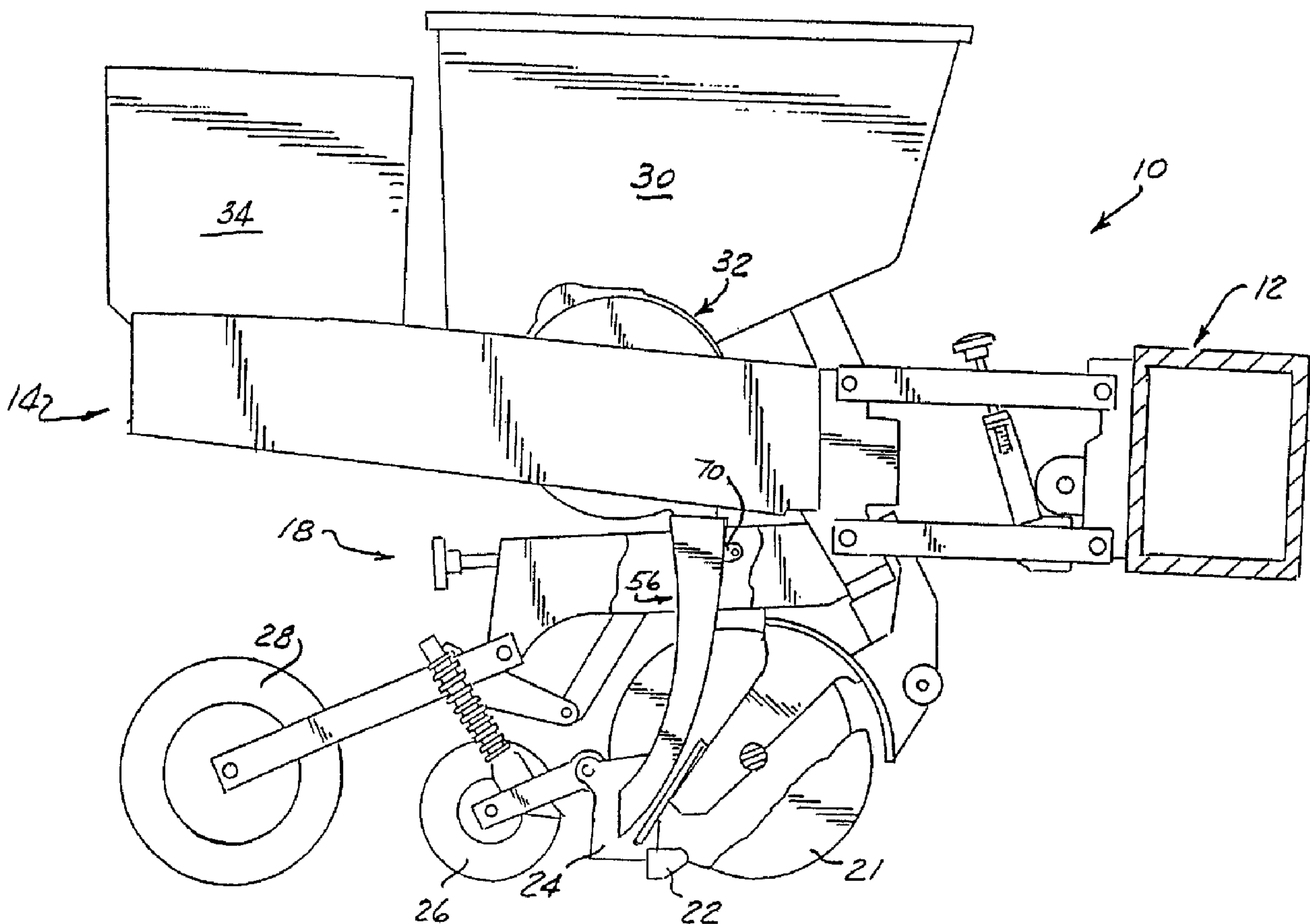
(72) Inventeurs/Inventors:
STUFFLEBEAM, JOHN F., US;
DUNHAM, LISLE J., US;
OLSON, THOMAS A., US;
JOHNSON, CHAD M., US;
SLOWINSKI, DAVID N., US

(73) Propriétaire/Owner:
CNH AMERICA LLC, US

(74) Agent: GOWLING LAFLEUR HENDERSON LLP

(54) Titre : DOSEUSE POUR TUBE A SEMENCES

(54) Title: SEED TUBE FOR SEED METERING APPARATUS



(57) Abrégé/Abstract:

A seed tube for an agricultural implement having a seed metering mechanism for uniformly dispensing seeds. The seed tube defined an enclosed curved seed pathway extending between opposite ends of the tube. To promote control over the seeds passing through the tube, the tube has a smooth but decreasing cross-sectional configuration between the ingress and egress



(57) **Abrégé(suite)/Abstract(continued):**

ends of the tube. The tube generally includes a front wall, a rear wall and a pair of side walls. The front wall is generally separated into an upper and lower portion. An opening in the front wall, which is provided to receive a monitoring device, is associated with the lower front wall portion. In addition, the lower front wall portion is stepped forward relative to the upper front wall portion. The enclosed seed pathway further includes a narrowed front edge extending in an upward direction from the egress end of the tube along some section of the front wall. The narrowed front edge enhances control over the seeds such that individual seeds passing through the tube and deposited to the ground have equidistant spacings between the seeds on the ground. The stepped forward arrangement for the lower front wall portion also allows a monitoring device to be used without disrupting the flow of seeds in the seed tube.

ABSTRACT OF THE INVENTION

A seed tube for an agricultural implement having a seed metering mechanism for uniformly dispensing seeds. The seed tube defined an enclosed curved seed pathway
5 extending between opposite ends of the tube. To promote control over the seeds passing through the tube, the tube has a smooth but decreasing cross-sectional configuration between the ingress and egress ends of the tube. The tube generally includes a front wall, a rear wall and a pair of side walls. The front wall is generally separated into an upper and lower portion. An opening in the front wall, which is provided to receive a monitoring
10 device, is associated with the lower front wall portion. In addition, the lower front wall portion is stepped forward relative to the upper front wall portion. The enclosed seed pathway further includes a narrowed front edge extending in an upward direction from the egress end of the tube along some section of the front wall. The narrowed front edge enhances control over the seeds such that individual seeds passing through the tube and
15 deposited to the ground have equidistant spacings between the seeds on the ground. The stepped forward arrangement for the lower front wall portion also allows a monitoring device to be used without disrupting the flow of seeds in the seed tube.

SEED TUBE FOR SEED METERING APPARATUS

FIELD OF THE INVENTION

The present invention generally relates to agricultural implements having mechanisms for metering seed delivery at a controlled rate to the ground over which the implement is drawn and, more particularly, to a seed tube for directing seeds from the seed delivery mechanism for gravitational deposit on the ground.

BACKGROUND OF THE INVENTION

Agricultural implements such as planters and grain drills typically include mechanisms which meter or dispense individual seeds to the ground. As the implement is drawn across a field seeds are preferably deposited into furrows in the ground. As will be appreciated by those skilled in the art, the seeds which are planted vary both in size, weight and shape depending upon the particular planting.

Various types of seed metering mechanisms are known in the art. Some seed metering mechanisms are a mechanical type wherein individual seeds are picked from a seed mass and discharged to the ground for deposit within the furrows by mechanical devices. Other seed metering mechanisms utilize an apertured rotating disk that operates under the influence of air pressure differentials. Other metering mechanisms rely on a rotating drum

