A DRILL FOR SEEDING NURSERY ROWS.

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In view of the large amount of nursery sowing of field crops done on experiment stations, any implement which will save time and labor and eliminate mixtures of varieties or strains in seeding is of value. A drill which has these advantages has been devised by the writer. The merits claimed for the drill include the following:

1. Greater speed.
2. Greater accuracy.
3. Operation by one man.
4. Elimination of mixtures.
5. Seeding can be done on a windy day.
6. Better germination can be obtained than in hand seeding.

The essential parts of the drill are a funnel into which the seed is dropped by hand at the desired rate; a furrow opener; a tube which carries the seed from the funnel to the furrow opener; and a carriage on which these parts are mounted. The tube is long enough to permit the operator to walk with the body erect while seeding and wide enough to prevent any seed from lodging.

The type of carriage can vary somewhat and yet be satisfactory. A carriage having three wheels, two in front and one in the rear behind the furrow opener, is recommended. This type of carriage will stand without support and can be guided easily.

The front wheels are adjustable on the axle so that when the distance between the rows to be planted is not greater than 1½ feet they can be made to mark the rows by adjusting the distance between the wheels. After sowing the first row the other rows will be spaced properly by running one front wheel on the row previously sown. Rows more than 1½ feet apart can be marked by having an extension rod marker attached to the drill.

The drill is pushed by the body in contact with a padded curved band, attached to the frame of the drill at about the height of one's waist line. It is guided by one hand on the frame in front of the body. The other hand is used in dropping the seed into the funnel.

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