cast drive chain, as shown in Fig. 4. The cup shown in Fig. 5 was made from 28 gauge sheet metal cut according to the diagram shown in Fig. 6. The speed of the chain to which the cups are attached is so regulated that a seed placed in each cup is dropped every 4 inches. A single seed is dropped in each cup by hand, and any extra seeds dropped accidentally in a cup are removed with forceps. The furrow opener used on this seeder is similar to the one on the adjustable seeder and was attached in the same manner.

Two men, one filling the cups and the other pushing the seeder, can sow approximately 450 rod rows in a 9-hour day. With two men filling the cups and a third pushing the seeder, as many as 560 rows were seeded in 9 hours. Plants in rows sown with this seeder are shown in Fig. 7. This type of seeder has been used during 1937 and 1938 and the spacings have been satisfactory. The stands have been superior to those obtained from hand seeding in previous years.—H. M. Beachell, Texas Agricultural Substation No. 4, Beaumont, Texas.

PORTABLE FIELD DRIER

In recent studies on the root reserves of the European bindweed (Convolvulus arvensis L.), it was necessary to have a drier or dehydrator which could be used in the field. Four units have been assembled and one has been used for the past three seasons. The external appearance of the equipment is shown in Fig. 1, and the internal construction is illustrated in Fig. 2.

Fig. 1.—Portable field dehydrator.

assembled and one has been used for the past three seasons. The external appearance of the equipment is shown in Fig. 1, and the internal construction is illustrated in Fig. 2.

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