

25175 and 25176—Continued.

Seeds of the following:

25175. *MEDICAGO SATIVA L.* **Alfalfa.**

Alt-Deutsche Fränkische lucern. (P. L. H. No. 3420.) This alfalfa usually has a very large percentage of hard seed, in some samples as high as 63 per cent failing to germinate in the five-day germination test. On this point Wissinger says: 'We could bring the seed to greater germinating power by scratching, were it not for the fact that the hardness of shell is thought here to be a desirable quality under certain conditions. Indeed, it is believed that the longevity of a stand of Franconian lucern is due to its hard-shelled seeds, some of which often lie dormant for years, thereby constantly rejuvenating the stand with a fresh supply of young plants. The appearance of this seed, as furnished, is not first class. We would not, however, wish to do anything that would impair its originality.'

'The present sample was grown in Iphofen, Franconia.' (Brand.)

25176. *MEDICAGO SATIVA VARIA* (Mart.) Urb. **Sand lucern.**

Bohemian. (P. L. H. No. 3421.) This seed was grown on the right bank of the Elbe in Bohemia.' (Brand.)

25177. *TRIFOLIUM SUAVEOLENS* Willd. **Shaftal.**

From Amritsar, Punjab, India. Secured from Mr. Philip Parker, experimental officer in the Indian Irrigation Secretariat, through Mr. Charles J. Brand. Received April 1, 1909.

'Shaftal, which is an annual plant, is the chief fodder crop in the valleys of the northwest frontier of India. It is always grown with irrigation and gives exceedingly good yields.'

'Experiments begun in 1907 with the seed previously presented by Mr. Parker (S. P. I. Nos. 19506 and 19507) have proceeded far enough to show considerable promise for this clover, especially in our hot irrigated valleys.' (Brand.)

25178 and 25180. *MEDICAGO* spp.

From Vienna, Austria. Secured from Gebrüder Boschan, successors to Wieschnitzky & Clauser, through Mr. Charles J. Brand. Received March 25, 1909.

The following seeds:

25178. *MEDICAGO SATIVA VARIA* (Mart.) Urb. **Sand lucern.**

Böhmische. (P. L. H. No. 3428.)

25179. *MEDICAGO SATIVA L.* **Alfalfa.**

Ungarische. (P. L. H. No. 3429.)

25180. *MEDICAGO SATIVA L.* **Alfalfa.**

Mährische. (P. L. H. No. 3430.)

25181 to 25185. *MEDICAGO SATIVA L.* **Alfalfa.**

From Bonn-Poppelsdorf, Germany. Presented by Prof. Dr. Th. Remy, director, Institut für Bodenlehre und Pflanzenbau der Königlichen landwirtschaftlichen Akademie, Bonn am Rhein, through Mr. Charles J. Brand. Received March 25, 1909.

The following seeds:

25181. *Pfalzer.* (P. L. H. No. 3422.) Original seed from Frankenthal, Rhein-Pfalz, Germany.