

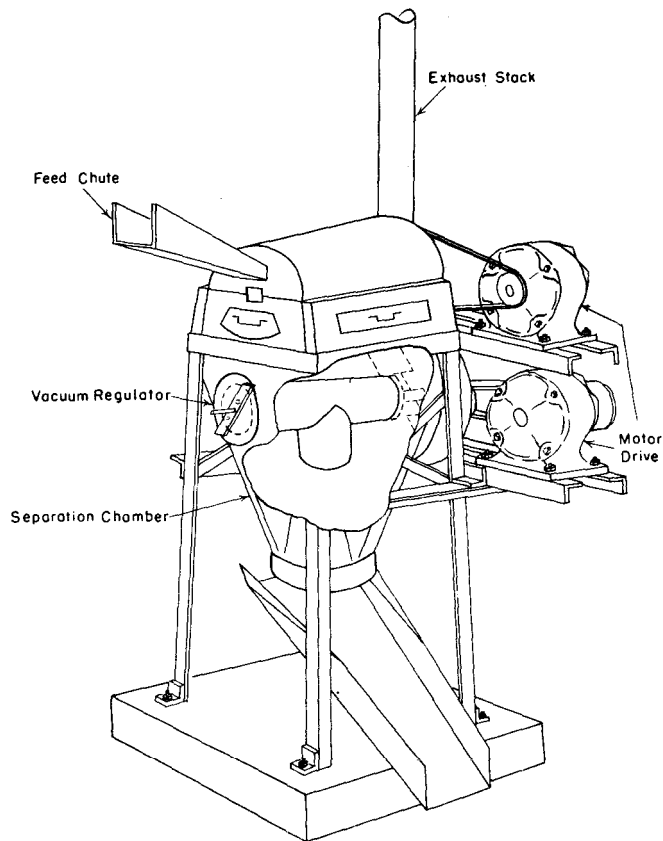
SEED CLEANING AND DEWINGING MACHINE

Karl-B. Lanquist

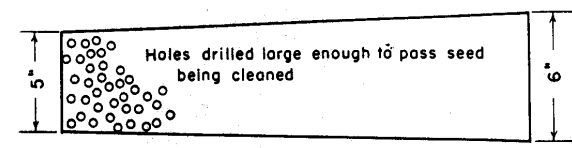
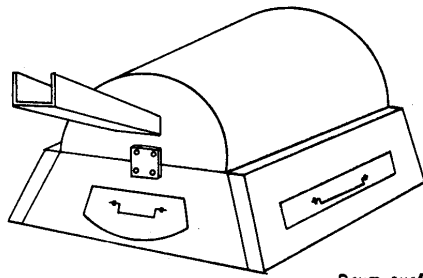
Nurseryman, Mt. Shasta Nursery, U. S. Forest Service  
McCloud, California

The seed cleaning and dewinging machine shown in the following drawings was adapted from the "dustless hammermill" designed by the Soil Conservation Service. The basic hammermill assembly was replaced by a brush arrangement for removing the wings from seed of conifers. The main features are the brush housing and the mounting of the brushes. The corrugated rubber mat inside the housing adds much to the effectiveness of the machine. If properly regulated, the vacuum carries chaff and wings away from the seed, and the machine is dustless.

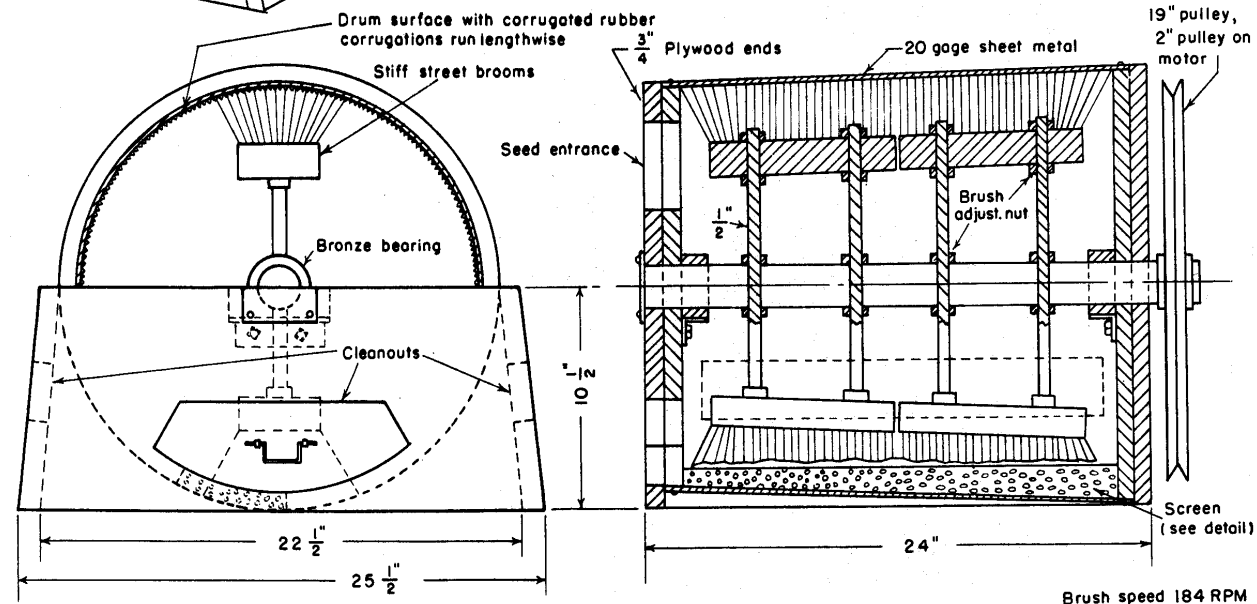
The machine removes the wings almost 100% in one operation. It is necessary to use different sized screens for the various sizes of seed to be dewinged and cleaned. The cost of seed processing with this efficient machine is reasonable.



Blower and Separation Chamber, adapted from "Dustless Hammer Mill",  
designed by Soil Conservation Service, Region 4, Fort Worth, Texas



SCREEN



Brush speed 184 RPM  
1/3 H.P. motor speed 1750 RPM

**SEED CLEANER**  
DESIGNED BY KARL B. LANDQUIST  
MT. SHASTA NURSERY  
U.S. FOREST SERVICE

Drawn U.S.F.S., WO, 1953