

OBJECTS

BREAKER PICKERS

The object of the machine is, (1st)- to remove foreign matter, more especially the heavier and larger impurities, such as seeds, earth, and so on, and (2nd)- a less important object is to form the cotton presented into a comparatively level sheet known as a lap.

The principle by which the first object is attained is:

(a) By a rapidly revolving rigid beater striking a fringe of cotton presented by slowly revolving feed rolls. This gives the heavier foreign substance sufficient momentum to pass thru the bars of a grid, altho the momentum imparted to the cotton is not sufficient to drive it thru the grid. In a smaller degree:

(b) By sand and leaf falling into a chamber covered by an inclined grating, and (c) By an air current drawing the dust out of the cotton thru a screen or cage.

The second is attained by condensing the cotton into a sheet by means of rotating cages thru which a current of air passes, the cotton being drawn to the outside of the cage, but not allowed to pass thru. Sufficient fiber is thus attracted to the slowly revolving cages, often called screens, to produce a comparatively thick sheet, which is then wound on an iron core which is afterwards withdrawn.

