

EMPTY FRUIT BUNCH (EFB) PROCESSING EQUIPMENT FOR THE
PALM OIL INDUSTRY

ABSTRACT

The present invention discloses apparatus for processing oil palm empty fruit bunches, coconut husks or the like to form separated fibrous material, the apparatus including delivery means for delivering sequentially single fibre containing members from a holding means or hopper for such fibre containing members to a primary shredder mechanism, the primary shredder mechanism having at least one first disc adapted for rotation within a space between at least two second discs whereby said first disc and said second discs rotate in opposite directions about spaced parallel axes, said second discs each having radially extending and circumferentially spaced fibrous material engaging formations located around their peripheries, said first disc also including radially extending and circumferentially spaced fibrous material engaging formations located around its periphery, and means for sequentially delivering fibrous material to said space between said second discs, the fibrous material formed by said primary shredder mechanism being passed to secondary macerator means, the secondary macerator means further treating said fibrous material to form individual strands of fibre which is then washed by washing means and dried by drying means.

Fig. 3