

ABSTRACT
PROCESSING MATERIALS

Biomass (e.g., plant biomass, animal biomass, and municipal waste biomass) is
5 processed to produce useful intermediates and products, such as energy, fuels, foods or
materials. For example, systems and methods are described that can be used to treat
feedstock materials, such as cellulosic and/or lignocellulosic materials, while cooling
equipment and the biomass to prevent overheating and possible distortion and/or
degradation. The biomass is conveyed by a conveyor, which conveys the biomass under
10 an electron beam from an electron beam accelerator. The conveyor can be cooled with
cooling fluid. The conveyor can also vibrate to facilitate exposure to the electron beam.
The conveyor can be configured as a trough that can be optionally cooled.

FIG. 1