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(54) Title: WASTE PROCESSING APPARATUS AND METHOD OF FEEDING WASTE

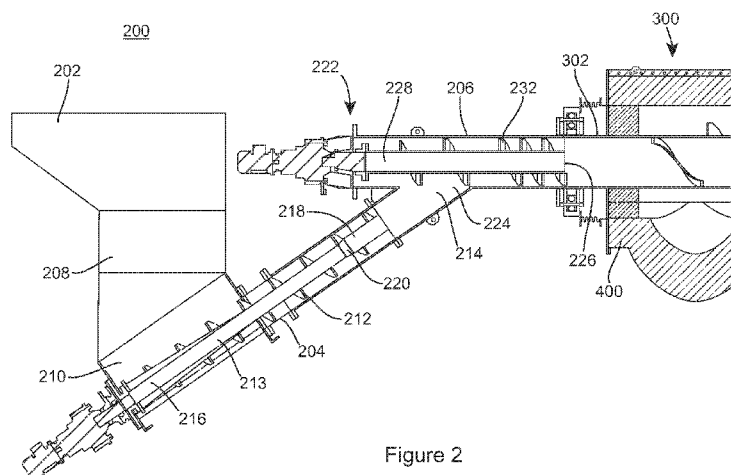


Figure 2

(57) Abstract: There is disclosed waste processing apparatus (100) comprising: a pyrolyser (300); and a feed assembly (200) comprising: a feed duct (204, 206) and a variable pitch feed screw (232) disposed within the feed duct for conveying waste from a waste inlet (210, 224) to a waste outlet (210, 224) of the feed duct (204, 206); wherein the pitch of the feed screw (232) reduces along its length in a direction from the waste inlet to the waste outlet so that in use waste received in the feed duct (204, 206) is compacted as it is conveyed from the waste inlet to the waste outlet. There is also disclosed waste processing apparatus (100) comprising a pyrolyser (300); and a feed assembly (200) comprising: a feed duct (204, 206); a feed screw (212, 232) disposed within the feed duct (204, 206) for conveying waste from a waste inlet to a waste outlet of the feed duct (204, 206); a rotary drive (240) for causing the feed screw (212, 232) to convey waste from the waste inlet to the waste outlet; a rotational resistance sensor (244) for monitoring a parameter relating to resistance to rotation; and a rotary drive controller (242) configured to cause the rotary-output-speed of the rotary drive (240) to reduce when the monitored parameter indicates excessive resistance to rotation.

