

AN APPARATUS FOR GRINDING A WORK PIECE

ABSTRACT

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According to an aspect of the invention, there is provided an apparatus for grinding a work piece, said apparatus including a hopper for storing and dispensing at least one work piece, each work piece having at least a first end and a second end, a first rotating means rotating at a first predetermined angular velocity, said first
10 rotating means having a plurality of recesses along its periphery, each recess dimensioned to receive one work piece, said rotating means rotating to transport each work piece for subsequent grinding, a conveyor positioned between said hopper and said first rotating means, to position and transport each work piece to each recess, a second rotating means rotating at a second predetermined velocity,
15 extending across and encapsulating a portion of the first rotating means, for contacting a surface of each transported work piece so that each work piece is held in position in each recess, each work piece rotating in response to the velocity difference between the first and second predetermined velocity, a first and second rotary abrasive tool, a first rotary abrasive tool to grind a first end of a work piece
20 and a second rotary abrasive tool to grind a second end of a work piece so that both ends are ground.

25 FIGURE 1