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(54) Title: ELECTROFORMED THIN-WALL CUTTING SAWS AND CORE DRILLS IMPREGNATED WITH ABRASIVES

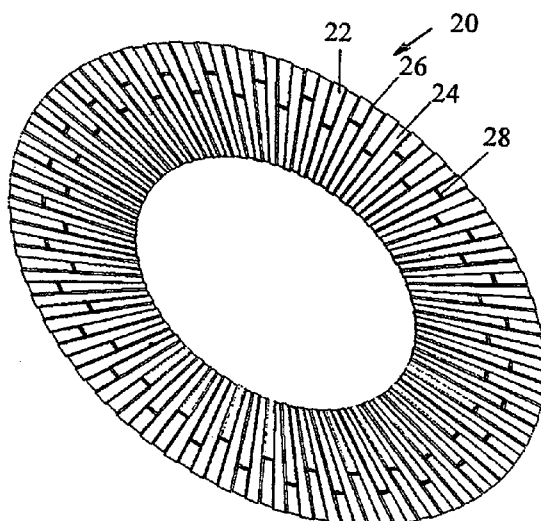


FIG. 2

(57) Abstract: The present invention describes electro formed thin-wall nickel cutting saws or blades (20) and core drills that are impregnated with diamond abrasives. The thin-wall saws and core drills are formed with a plurality of raised portions (22) and an equal plurality of recessed portions (24), with each raised portion (22) alternating with a recessed portion (24), the raised and recessed portions are substantially parallel or concentric and they are connected by transition portions (26). In another embodiment, some of the transition regions are formed with intermediate steps or partially raised and recessed portions. These intermediate steps or partially recessed and raised portions allow more uniform distribution of matrix material across a kerf width D1 as the cutting saw is spun, thereby giving the cut edge a substantially square profile.