

ABSTRACT**METHOD AND APPARATUS FOR CUTTING WET CONCRETE**

A concrete cutting saw is provided for the cutting of grooves in the surface of wet concrete and comprises a motor driven rotating cutting blade (46) mounted on a support structure (96) is supported by wheels (40), and has a skid plate (42) with a slot (68) through which the rotating cutting blade passes. The cutting blade is mounted with a sound deadening blade housing (496). The skid plate is movably attached to the saw and resiliently urged against the concrete during cutting. The skid plate is constrained into a bowed configuration so that it is substantially flat during cutting. A variable speed transmission (346) is drivingly connected to the wheels. A sensor (285) detects the relative position of the skid plate and the cutting blade which cooperates with the variable speed transmission to slow down or speed up the saw. A distance counter measures and displays the saw travel distance.

FIG. 16