

SYSTEM FOR DRILLING A BUILDING SURFACE

ABSTRACT

5 A drilling system for creating an anchor hole at a pre-marked target by
drilling on a building's overhead surface based on the user inputted drilling data.
Specifically, the drilling system operates in three modes involving the pre-
marked target on the surface of the building with the anchor hole to be formed
for installation using an RTS containing information of the hangers,
10 predetermined marking point, or location tracing of a laser point. A laser
position unit illuminates a working area containing the pre-marked target, and
an imaging unit scans images of the working area. A processing unit processes
the captured images, determines location coordinates of the pre-marked target,
and generates drilling data associated with the pre-marked target. A driver
15 directs a linear actuator to place a drill unit in position, based on the location
coordinates, to make the anchor hole at the pre-marked target by drilling on the
building's surface.

(Fig. 2)