ABSTRACT

A SYSTEM FOR LASER PRINTING AND HOLE DRILLING ON A BUILDING SURFACE

A printing and drilling system for printing and drilling a target on a building surface that includes a supporting unit for supporting omni-directionally the printing and drilling unit, which has a number of laser position units for illuminating a working area containing the target, an imaging unit to capture images of the working area, a control unit to process the captured images, determine location coordinates of the target, and generate drilling data associated with the target, a laser generator for emitting a laser beam, a laser printing unit movable in x and y axes directions for emitting the laser beam to print the target, and a laser path reflector in the laser printing unit that can focus the laser beam in sequence for printing the target, and an electric drill unit movable from one position to another position for drilling an anchor hole on the laser-marked target.

(FIG. 2)