

System For Determining And Drilling A Predetermined Drilling Point On Building Surface

Abstract of Disclosure

5

The present invention provides a system (100) for determining and drilling a predetermined drilling point on a building surface, comprising a BIM-based building model created using the BIM technology; a RTS in communication with
10 the BIM-based building model to identify two or more reference points in a predefined region of the building; a drill device (20) movable to drill the surface; a machine vision unit configured to capture and process images of the reference points to determine a position of the predetermined drilling
15 point and generate drilling data associated with the predetermined drilling point; and a control device coupled with the machine vision unit to receive the generated drilling data and control a drill bit of the drill device (20) to coincide with the predetermined drilling point and move up to
20 drill the building surface at the predetermined drilling point. The system (100) of the invention significantly reduces the labor intensity, but is effective for drilling the surface.

(Abstract Drawing: Figure 1)