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(57) Abstract :

A radiology workstation, comprising a chair 101 mounted on a square-shaped base platform 102 through a vertical hydraulic rod 103, enabling adjustable seating for the radiologist, multiple display screens 104 are mounted on a perpendicular rectangular plate 105, providing visual output and workflow assistance, a first artificial intelligence (AI)-enabled camera 106, functioning in conjunction with a LiDAR sensor, performs radiologist authentication, a second AI-enabled camera 107 is installed behind the plate 105 and operates together with a holographic projector 108 to visually guide the patient during imaging procedures, positioned in front of the display screens 104 within a rectangular frame 110, an electrochromic glass panel 109 functions as a transparent overlay for safeguarding patient information, a radiation protection arrangement 111 to enhance radiologist safety.

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