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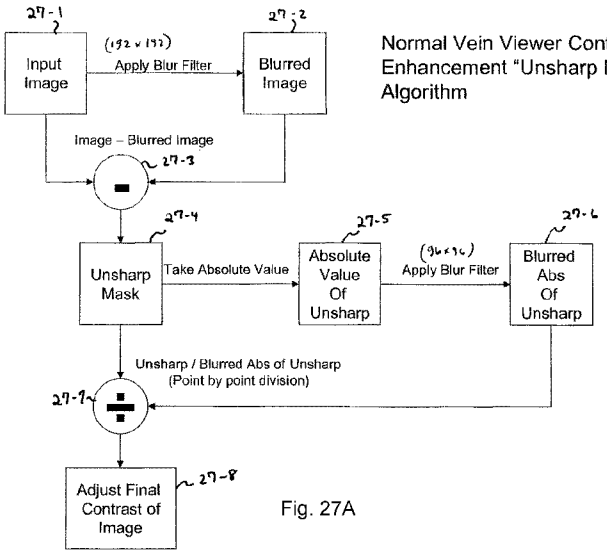
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(54) **Title:** SYSTEM AND METHOD FOR PROJECTION OF SUBSURFACE STRUCTURE ONTO AN OBJECT'S SURFACE



Normal Vein Viewer Contrast Enhancement "Unsharp Masking" Algorithm

Fig. 27A

(57) **Abstract:** An imaging system and method illuminates body tissue with infrared light to enhance visibility of a vascular structure, and generates an image of the body tissue and the subcutaneous blood vessels based on reflected infrared light. The system includes an infrared illumination source for generating the infrared light and a structure for diffusing the infrared light. The system further includes an imaging device for receiving the infrared light reflected from the body tissue and for generating an enhanced image of the body tissue based on the reflected infrared light. The enhanced image is produced by contrast enhancement techniques involving applications of an unsharp mask. The system further includes a project a projector for receiving an output signal from the imaging device and for projecting the enhanced image onto the body tissue.

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