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(54) **Title:** INTRAVENOUS THERAPY SYSTEM FOR BLOOD VESSEL DETECTION AND VASCULAR ACCESS DEVICE
PLACEMENT

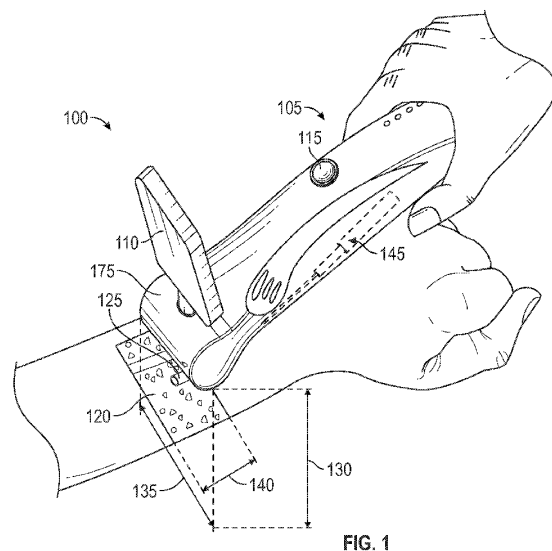


FIG. 1

(57) **Abstract:** An intravenous therapy system, may include a processor; a data storage device; and a handheld ultrasound probe to detect structures within a patient's body, the handheld ultrasound probe including a video display device physically and operatively coupled to the handheld to display the structures within the patient's body and a magnetic field detector to detect the presence of a vascular access device (VAD) and provide closed-loop feedback to guide the VAD into a blood vessel within the patient's body detected by the ultrasound probe.

[Continued on next page]

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