

SMART FISTULA NEEDLE FOR SAFE FISTULA CANNULATION AND OTHER VASCULAR PROCEDURES

Abstract

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This invention relates to a device for penetrating vessel wall. The device comprises a trigger housing having a resilient means, a trigger haemostatic valve and a trigger arranged between the resilient means and the trigger haemostatic valve, the resilient means arranged to urge the trigger towards the trigger haemostatic valve; a catheter housing having a flexible catheter tube, a needle provided within the flexible catheter tube with a sharp end extending from one end of the flexible catheter tube, a stylet provided within the needle with one end coupled to the trigger and an opposing end extending out of the sharp end of the needle; and a flash back chamber arranged between the catheter housing and the trigger haemostatic valve, wherein the trigger is between an extended position where the stylet extends out of the needle shielding the needle and a retracted position where the trigger moves away from the trigger haemostatic valve retracting the stylet and exposing the needle.

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Figure 1 to accompany the abstract