

[54] **VESSEL CANNULATOR AND CLAMP FOR LYMPHANGIOGRAPHY**

3,469,580	9/1969	Huddy	128/215
3,648,684	3/1972	Barnwell	128/215
3,687,131	8/1972	Rayport	128/2 B

[75] Inventor: **David Norman**, Denver, Colo.

[73] Assignee: **Becton, Dickinson and Company**, East Rutherford, N.J.

Primary Examiner—Aldrich F. Medbery
Attorney, Agent, or Firm—Kane, Dalsimer, Kane, Sullivan and Kurucz

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[51] **Int. Cl.** **A61b 17/00**

[58] **Field of Search** 128/346, 2 A, 20, 214, 128/215, 303, 221, 347, 348, 2 M, 2 B; 27/21, 24 A

[57] **ABSTRACT**

A needle guide is formed with a tubular section and an opened trough section connected thereto in aligned-spaced relationship. A clip member is formed and arranged to releasably engage an open side of the trough section so that a portion of a lymph vessel may be cradled in the trough section and secured by the clip member. During cannulation the clip is held open and a needle is inserted through the tubular section which guides the needle into the cradled portion of the lymph vessel. The clip is then closed and the needle is held in position within the vessel by the pressure of the clip member.

[56] **References Cited**
UNITED STATES PATENTS

2,700,385	1/1955	Ortiz	128/215
2,880,724	4/1959	Verlarge	128/215
3,166,819	9/1965	Robbins	27/21
3,324,854	6/1967	Weese	128/215

12 Claims, 7 Drawing Figures

