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(71) Applicant and

(72) Inventor: GENOVESI, Mark, H. [US/US]; 295 Central Park West, Apartment 14F, New York, NY 10024 (US).

(74) Agent: STRAUSS, Richard, L.; 2492 Oceanside Road, Oceanside, NY 11572 (US).

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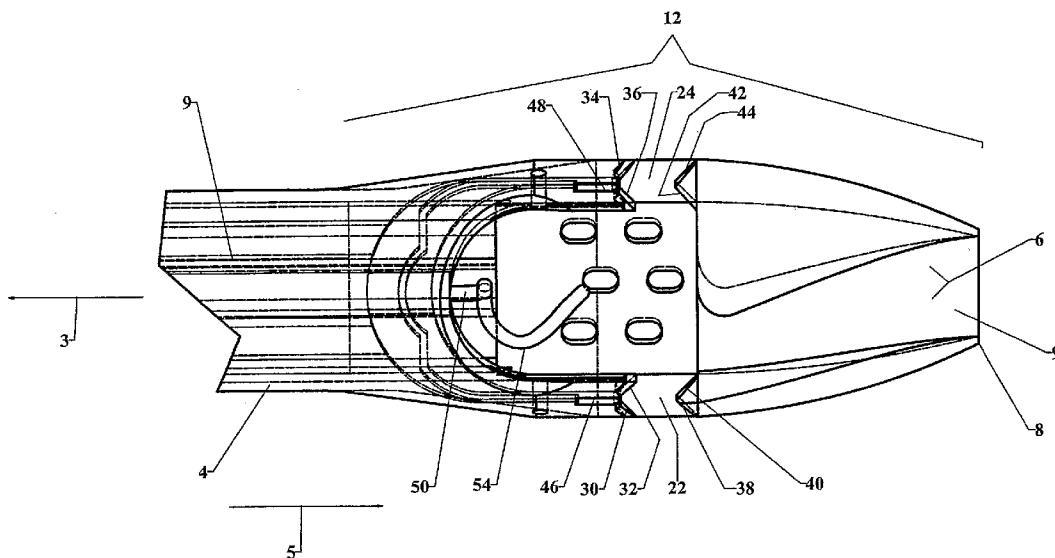
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(54) Title: HEATLESS BLOOD VESSEL HARVESTING DEVICE



(57) Abstract: A method and device are disclosed directed at harvesting of vessels, such as arteries and veins, especially as required in vessel grafting procedures. The device and method discloses a cannula-like device that provides, identification, capture, manipulation, hemostasis and cleavage of branch vessels from the harvested vessel without need for further devices. In certain preferred embodiments of the disclosed method and device, the disclosed harvesting device achieves branch vessel cleavage and hemostasis without the use of heat producing means such as cautery. In addition, certain embodiments utilize a clip/coil magazine technology so as to enable severance and hemostasis of multiple branch vessels without need for removal of the device from the surgical site. Further embodiments disclose the incorporation and use of irrigants containing CO₂, as well as other agents capable of stimulate release of nitric oxide from vascular endothelium are applied to subject vessels so as to enhance the viability of vessels to be harvested as graft material.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/40733

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61B 17/22**(2006.01)

USPC: 606/159

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/159,46,47,48,158,170,180,190;604/22;600/104,114

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,042,538 A (Puskas) 28 March 2000, See entire document.	1-51

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Further documents are listed in the continuation of Box C.

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See patent family annex.

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P.O. Box 1450

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Facsimile No. (571) 273-3201

Authorized officer

Victor Nguyen

Telephone No. (703) 308-0858