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PATENTABILITY SEARCH

Title: “**BLOOD COLLECTING DEVICE**” Submitted

to:

Address:

Email:

Client Reference No:

Date: 06th **JULY, 2016.**

Feature to Search

E1. A blood collection device includes a collector having an upper end for placement in the close proximity to the punctured skin so that the blood will be conveyed into an integral tubular container.

E2. A removable closure is provided at the top of the collector to seal the collector during non-collecting use and the closure is structured so that the container may nest therein while blood is being collected.

Search Strategy

Database: AcclaimIP, USPTO, Patentscope, Espacenet, Google Patents, Inpass.

Keywords:

Set 1	Capillary tube, tubular container, Test tubes
Set 2	Lancet, Blood testing device, Needle
Set 3	Puncturing, penetrating

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Set 4	Blood sample, tissue
Set 5	Collecting, receiving

US CLASSIFICATIONS

600/576 Manually supported collector with rigid intake tube (e.g., a hollow needle, etc.):

600/573 Liquid collection:

210/518 Sectional isolator:

INTERNATIONAL CLASSIFICATIONS

A61B5/15 Devices for taking samples of blood

A61B5/151 Specially adapted for taking samples of capillary blood, e.g. by lancets B01L3/14

Test tubes

Search Results Reference

1:

Patent/Publication Number: [US4360016](#)

Title: Blood collecting device

Assignee/Applicant: Transidyne General Corp.

Filing Date: Jul 1, 1980

Priority Date: Jul 1, 1980

Also Published as: NONE

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Relevant Excerpt E1	<u>IN ABSTRACT:</u> A blood collecting device (10) includes a lancet (40) and a capillary tube (30) carried together by an elongated member (14). The tube (30) is simultaneously positioned adjacent the skin when the lancet (40) is advanced by the member (14) to puncture the skin. The lancet (40) is automatically retracted by a retraction spring (54) but the tube (30) is maintained in close
	proximity with the puncture for collecting blood issuing therefrom without further manipulation by the user.
Relevant Excerpt E2	<u>IN CLAIMS:</u> 1. A fluid collecting device (10) comprising an elongated member (14), puncturing means (40) carried by said member for puncturing tissue, and means (32) also carried by said member (14) for connecting a capillary tube (30) to the member such that an end (31) of the capillary tube is maintained in a predetermined space relationship with said puncturing means whereby the tube end is automatically positioned adjacent to the punctured tissue for collecting blood issuing therefrom.

Reference 2:

Patent/Publication Number: [US4576185](#)

Title: Collection device for capillary blood

Assignee/Applicant: Terumo Medical Corporation

Filing Date: Dec 5, 1983

Priority Date: Dec 5, 1983

Also Published as: DE3473222D1, EP0146074A1, EP0146074B1

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Relevant Excerpt E1	<u>IN ABSTRACT:</u> A collection device for capillary blood includes a collector having an upper end for placement in the close proximity to the punctured skin so that the blood will be conveyed into an integral tubular container. A removable closure is provided at the top of the collector to seal the collector during non-collecting
	use. The closure is structured so that the container may nest therein while blood is being collected.
Relevant Excerpt E2	<u>IN CLAIMS:</u> 1. A collection device for capillary blood comprising a container portion in the form of a tube having an open upper end and a closed lower end, a collector portion secured to said upper end of said tube in flow communication therewith, said collector portion having upper and lower ends, inner and outer surfaces, and further including means for conveying blood from a user and into said container portion, closure means for selectively sealing the upper end of said collector portion during non-collecting use of said device, said closure means having a recess of a shape and dimension whereby said lower end of said tube is selectively nested into said closure recess during collecting use of said device, said collector portion being integral with said container portion , said upper end of said collector portion being in the form of an arcuate lip extending coaxially therefrom to comprise said blood conveying means, said closure means including an overcap, an axial plug extending downwardly away from said overcap with an annular channel there between formed by a wall bridging said overcap.

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Reference 3:

Patent/Publication Number: [US3957653](#)

Title: Apparatus for collection, separation and isolation of blood

Assignee/Applicant: Becton, Dickinson And Company

Filing Date: Apr 3, 1975

Priority Date: Apr 3, 1975

Also Published as: NONE

Relevant Excerpt E1

IN ABSTRACT:

Disclosure is made of a novel apparatus for the collection, separation and isolation of serum or plasma from blood obtained from mammalian capillary sources. **The apparatus comprises a tubular blood collection component and an airtight closure therefor. The closure member includes a reservoir and means of dispensing a thixotrope into the blood collection chamber, under centrifugal force, to effect a physical separation and isolation of the desired serum or plasma. The apparatus is advantageously employed to minimize loss of blood gases during separation and holding.**

Relevant Excerpt E2	<u>IN CLAIMS:</u> 1. Apparatus for the collection, separation and isolation of serum or plasma from capillary blood, which comprises; a first tubular body having a fixedly closed end and an open end, said open end having a greater width than said closed end, said body and said open and closed ends together defining a blood collection reservoir with the capacity of from about 200 to about 1,000 microliters of blood; b. a first flange disposed about the outer periphery of said open end; c. a movable first closure member adapted to nest in and to seal said open end, said closure member comprising; i. a second tubular body having open upper and lower ends and
	which defines a sealant holding chamber, the opening in said lower end being of a dimension which is insufficient to permit the passage of a thixotrope under the force of one gravity but sufficient to permit the passage of said thixotrope under a centrifugal force; ii. a second flange disposed about the outer periphery of said upper end; iii. a second movable closure member for sealing said upper end, said second movable closure having means formed therein for releasably engaging said second flange in a fluid tight sealing association.

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