

Title (en)

HYDROSTATIC FINGER CUFF FOR BLOOD WAVE FORM ANALYSIS AND DIAGNOSTIC SUPPORT

Title (de)

HYDROSTATISCHE FINGERMANSCHETTE ZUR BLUTKURVENANALYSE UND DIAGNOSEUNTERSTÜTZUNG

Title (fr)

DOIGTIER HYDROSTATIQUE POUR ANALYSE DE LA FORME D'ONDE DU SANG ET SUPPORT DE DIAGNOSTIC

Publication

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Application

EP 11817052 A 20110811

Priority

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Abstract (en)

[origin: WO2012021731A2] A hydrostatic finger cuff for blood flow property analysis is provided which includes an elongated substrate member which has a pair of opposing long edges and a pair of opposing short edges. The hydrostatic finger cuff is configured to form a frustoconical shell when the ends of the cuff are overlapped and releasably connected together. The interior of the frustoconical shell conforms to the shape of the middle phalange of a finger and the first phalange of a thumb. On one side of the elongated member has an inflatable member that has a pressurizable interior region. A tube is fixed to the inflatable member and is in pneumatic communication with the interior of the inflatable member inflatable to a maximum of no more than 60 mmHg. The inflatable member completely circumscribes the finger and provides substantially uniform contact across the entire length of a phalange, in particular, the middle phalange of the middle finger. A pressure relief member is in fluid communication with the inflatable member, and is set to open and release pressure at a pressure level no higher than 1.2 psi.

IPC 8 full level

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