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(72) Inventor: **BURNAM, Michael**; 124 Manzanita Street,  
Ashland, Oregon 97520 (US).

(74) Agent: **AGGARWAL, Ankit** et al.; 2000 Pennsylvania  
Avenue NW, Suite 4001, Washington, District of Columbia  
20006 (US).

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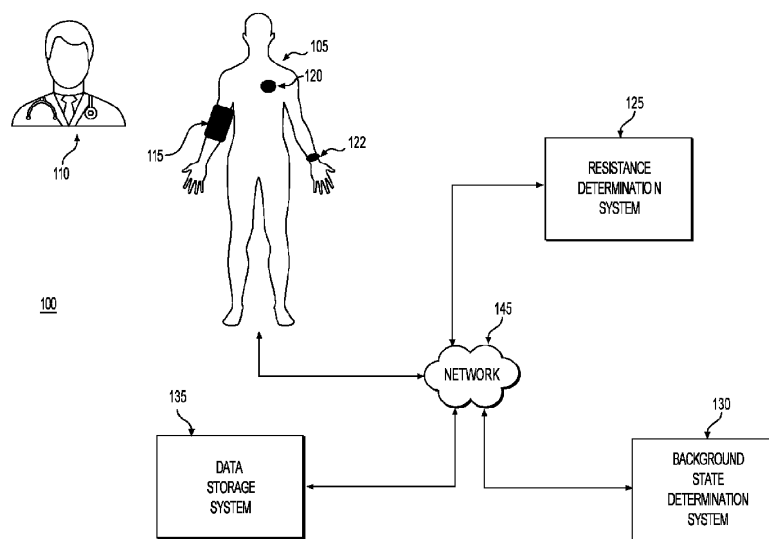
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(71) Applicant: **BAROPACE INC.** [US/US]; 124 Manzanita  
St., Ashland, Oregon 97520 (US).

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(54) Title: SYSTEMS AND METHODS FOR DETERMINING SYSTEMIC VASCULAR RESISTANCE USING PHOTO-  
PLETHYSMOGRAPHY



**FIG. 1**

(57) Abstract: Methods, systems, and computer-readable medium for determining a systemic vascular resistance (SVR), by receiving a systolic blood pressure (SBP) and a diastolic blood pressure (DPB) from a calibrated photoplethysmography (PPG) device, receiving a pulse transit time (PTT) from the PPG device, determining a stroke volume based on the PTT, determining a mean arterial pressure (MAP) based on the SBP and the DBP, receiving a heart rate, determining a cardiac output based on the heart rate and the stroke volume, determining a first value based on a right atrial pressure (RAP) or central venous pressure (CVP) and the map, determining a second value based on the first value and the cardiac output, and determining a SVR based on the second value and a factor.

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