

A B S T R A C T

PULSATILE AND NON-INVASIVE DEVICE FOR CIRCULATORY AND
HAEMODYNAMIC ASSISTANCE

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The present invention relates to a non-invasive
pulsatile circulatory assistance device encouraging the
circulation of a volume of blood in a subject's body, the
device being characterized in that it comprises:

10 · a flexible multilayer structure for applying
against at least a portion of said subject's body, said
structure comprising a flexible inner layer (102) beside
said subject's body and a more rigid outer layer (104);
and

15 · means for pulsating connected to said multilayer
structure in such a manner that the assembly comprising
the structure plus the pulsation means is leaktight,
the device being characterized in that said
pulsation means are adapted to create pulsations between
20 said inner and outer layers by means of a fluid referred
to as a "pulsation" fluid, each of said pulsations
propagating progressively in the venous return direction
along said portion of said subject's body when said
structure is placed on said portion of said subject's
25 body.

Fig. 5

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