

Title (en)

DEVICE AND METHOD FOR ACTIVE DECOMPRESSION OF THE CHEST DURING CIRCUMFERENTIAL CONSTRICTION
CARDIOPULMONARY RESUSCITATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR AKTIVEN DEKOMPRESSION DER BRUST WÄHREND DER KARDIOPULMONALEN
WIEDERBELEBUNG MIT UMFANGSVERENGUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉCOMPRESSION ACTIVE DE LA POITRINE PENDANT LA RÉANIMATION CARDIOPULMONAIRE PAR
CONSTRICTION CIRCONFÉRENTIELLE

Publication

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Application

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Abstract (en)

The present invention is a method and device for improving hemodynamics and clinical outcome of patients suffering cardiac arrest and other low-flow states by combination of circumferential constriction and anteroposterior compression decompression of the chest cardiopulmonary resuscitation. Anteroposterior compression decompression may be provided by a piston mechanism attached to a gantry above the patient. Circumferential constriction may be achieved by inflation of pneumatic bladders or shortening of a band. The on-off sequence and relative force of circumferential constriction and anteroposterior compression decompression may be adjusted so as to improve efficacy.

IPC 8 full level

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