

Title (en)  
COMPUTER GATED POSITIVE EXPIRATORY PRESSURE SYSTEM.

Title (de)  
RECHNERGESTEUERTES POSITIVATMUNGSDRUCKSYSTEM.

Title (fr)  
SYSTEME COMMANDE PAR ORDINATEUR ASSURANT UNE PRESSION POSITIVE EN FIN D'EXPIRATION.

Publication  
**EP 0273041 A4 19900111 (EN)**

Application  
**EP 87902943 A 19870327**

Priority  
US 84594286 A 19860331

Abstract (en)  
[origin: WO8706040A1] The use of Positive-End-Expiratory Pressure (PEEP) systems result in decreased cardiac output and decreased regional blood flow because the heart is surrounded by higher than usual pressure (elevated intrathoracic pressure). The invention lowers intrathoracic pressure selectively during a small portion of the heart cycle when it causes its greatest detriment. The invention lowers thoracic pressure by providing a low pressure source to the PEEP valve (14). Included in the invention are a sensing means (16) for sensing sequential heart beats of a patient, together with a computing means (18), which is connected to the sensing means (16), for computing a period between the sequential heart beats. In addition, a valve means (24) is connected electrically to the computing means (18) and pneumatically to ventilator means (12) for controlling the ventilator means (12), with the valve means (24) being positioned to cease supply of positive pressure in response to the computed period.

IPC 1-7  
**G06F 15/42**

IPC 8 full level  
**A61H 31/00** (2006.01); **A61M 16/00** (2006.01)

CPC (source: EP SE)  
**A61B 5/0205** (2013.01 - SE); **A61M 16/024** (2017.07 - EP); **A61M 2230/04** (2013.01 - EP)

Citation (search report)

- [X] FR 2251340 A1 19750613 - HOFFMANN LA ROCHE [CH]
- [A] EP 0127905 A2 19841212 - AIR LIQUIDE [FR]
- [A] EP 0164500 A2 19851218 - DRAEGERWERK AG [DE]
- See references of WO 8706040A1

Designated contracting state (EPC)  
FR IT

DOCDB simple family (publication)  
**WO 8706040 A1 19871008**; AU 598255 B2 19900621; AU 7231687 A 19871020; CA 1302505 C 19920602; CH 672991 A5 19900131; DE 3790137 T1 19880331; DK 162257 B 19911007; DK 162257 C 19920302; DK 504687 A 19870925; DK 504687 D0 19870925; EP 0273041 A1 19880706; EP 0273041 A4 19900111; GB 2194892 A 19880323; GB 2194892 B 19900509; GB 8722069 D0 19871028; JP H0488952 U 19920803; JP H06125 Y2 19940105; JP S63503207 A 19881124; NL 8720165 A 19880104; SE 459214 B 19890612; SE 8703727 D0 19870928; SE 8703727 L 19871001

DOCDB simple family (application)  
**US 8700644 W 19870327**; AU 7231687 A 19870327; CA 533497 A 19870331; CH 470087 A 19870327; DE 3790137 T 19870327; DK 504687 A 19870925; EP 87902943 A 19870327; GB 8722069 A 19870327; JP 50227987 A 19870327; JP 6600091 U 19910726; NL 8720165 A 19870327; SE 8703727 A 19870928