

Title (en)

Method and plant for supplying an air gas at variable quantities

Title (de)

Verfahren und Anlage zur Lieferung eines Luftgases in variablen Mengen

Title (fr)

Procédé et installation de fourniture d'un débit variable d'un gaz de l'air

Publication

EP 0848220 B1 20040218 (FR)

Application

EP 97402990 A 19971210

Priority

FR 9615281 A 19961212

Abstract (en)

[origin: EP0848220A1] The method for supplying to a consumer pipe (15), during an interval of time, a variable demand flow of a component of air, in particular oxygen, produced by an air distillation device, by: a) sucking from the device a total flow of the component of constant value (D1); b) dividing the time interval into different periods, so that eventually there is at least a first period during which the flow required (D) is equal to the total flow (D1); c) at least a second period during which the flow is less than the total flow; and at least a third period during which the flow is greater than the total flow. During the first period(s) the total flow is brought to the user pressure (P) and sent to the consumer pipe. During the second period(s), the required flow is brought to the pressure (P) and sent to the consumer pipe and a storage flow (equal to the difference between the supply and the required flow) is brought to a higher pressure (P1) greater than the user pressure and stored in a balancing store. During the third period(s), the total flow is brought to the user pressure and sent to the consumer pipe and a complementary flow (equal to the difference between the required flow and the supply) is delivered from the balancing store and expanded to the user pressure.

IPC 1-7

F25J 3/04

IPC 8 full level

F25J 3/04 (2006.01)

CPC (source: EP US)

F25J 3/0403 (2013.01 - EP US); **F25J 3/04036** (2013.01 - EP US); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04236** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04309** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04812** (2013.01 - EP US); **F25J 3/04836** (2013.01 - EP US); **F25J 2215/54** (2013.01 - EP US); **F25J 2230/50** (2013.01 - EP US); **F25J 2240/46** (2013.01 - EP US); **F25J 2290/10** (2013.01 - EP US); **F25J 2290/62** (2013.01 - EP US)

Cited by

US6038885A; EP0895045A3; WO2016025063A1

Designated contracting state (EPC)

BE DE ES GB IT NL SE

DOCDB simple family (publication)

EP 0848220 A1 19980617; **EP 0848220 B1 20040218**; AR 008937 A1 20000223; BR 9705641 A 19990525; CA 2224742 A1 19980612; CN 1130538 C 20031210; CN 1190726 A 19980819; DE 69727648 D1 20040325; DE 69727648 T2 20041014; ES 2216119 T3 20041016; FR 2757282 A1 19980619; FR 2757282 B1 20060623; JP H10259990 A 19980929; KR 100474464 B1 20050617; KR 19980063916 A 19981007; PL 323709 A1 19980622; US 5941098 A 19990824; ZA 9711131 B 19980623

DOCDB simple family (application)

EP 97402990 A 19971210; AR P970105832 A 19971211; BR 9705641 A 19971211; CA 2224742 A 19971212; CN 97125391 A 19971212; DE 69727648 T 19971210; ES 97402990 T 19971210; FR 9615281 A 19961212; JP 34172197 A 19971211; KR 19970066873 A 19971215; PL 32370997 A 19971212; US 99008597 A 19971212; ZA 9711131 A 19971210