

Title (en)

METHODS AND APPARATUS FOR PRODUCING LOW FLOW RATES OF FEEDSTOCK VAPORS

Title (de)

VERFAHREN ZUM HERSTELLEN VON DÄMPFE MIT NIEDRIGERN STRÖMUNG

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE PRODUIRE DES VAPEURS DE CHARGE D'ALIMENTATION DE FAIBLE DEBIT

Publication

EP 1007484 A4 20000920 (EN)

Application

EP 98933203 A 19980707

Priority

- US 9814018 W 19980707
- US 5331597 P 19970721

Abstract (en)

[origin: WO9903787A1] A method and apparatus for producing feedstock vapors utilized in the manufacturing of silica glass is provided. The apparatus includes a means for providing a constant flow of a liquid feedstock (22), a means providing an injector gas (24), a mixer (28), an injector tube (30) having an injector entrance (34) and injector orifice (36), a means for flowing a carrier gas (26), a vaporizer chamber (32) and a vapor feedstock delivery conduit (38) which delivers feedstock vapors to a conversion site where it is converted to a silica glass. The invention produces beneficial low flow rates of feedstock vapors, particularly suited for use in the manufacture of planar optical waveguides and lightwave optical circuits.

IPC 1-7

C03B 19/14; **C03B 8/04**

IPC 8 full level

B01J 4/00 (2006.01); **B01J 19/26** (2006.01); **C03B 8/04** (2006.01); **C03B 19/14** (2006.01); **C03B 20/00** (2006.01); **G02B 6/13** (2006.01)

CPC (source: EP KR)

B01J 4/001 (2013.01 - EP); **B01J 19/26** (2013.01 - EP); **C03B 19/00** (2013.01 - KR); **C03B 19/1415** (2013.01 - EP); **B01J 2208/00504** (2013.01 - EP); **B01J 2208/00548** (2013.01 - EP); **C03B 2207/85** (2013.01 - EP)

Citation (search report)

- [A] WO 9722553 A1 19970626 - CORNING INC [US], et al
- [A] EP 0760373 A2 19970305 - CORNING INC [US]
- [PA] WO 9827140 A1 19980625 - CORNING INC [US], et al
- See references of WO 9903787A1

Designated contracting state (EPC)

DE ES FR GB IE IT SE

DOCDB simple family (publication)

WO 9903787 A1 19990128; AU 727914 B2 20010104; AU 8291398 A 19990210; CA 2295684 A1 19990128; CN 1264352 A 20000823; EP 1007484 A1 20000614; EP 1007484 A4 20000920; JP 2001510136 A 20010731; KR 20010022069 A 20010315; TW 434194 B 20010516

DOCDB simple family (application)

US 9814018 W 19980707; AU 8291398 A 19980707; CA 2295684 A 19980707; CN 98807322 A 19980707; EP 98933203 A 19980707; JP 2000503025 A 19980707; KR 20007000638 A 20000120; TW 87111927 A 19980720