Title (en)

DRAW CONSTANT DOWNFEED PROCESS

Title (de)

KONSTANTES UNTERZIEHVERFAHREN

Title (fr)

PROCEDE DE DISTRIBUTION SUPERIEURE CONSTANTE PAR ETIRAGE

Publication

EP 1030823 A1 20000830 (EN)

Application

EP 98946905 A 19980910

Priority

- US 9818785 W 19980910
- US 5966297 P 19970925

Abstract (en)

[origin: WO9915470A1] Optical fiber (14) is drawn from a preform (10) that is fed to a furnace at a constant downfeed rate. The optical fiber (14) is drawn by a tractor (20) at a rate of at least 10 meters per second and the tractor (20) is allowed to vary the draw speed of the fiber (14) based on the fiber diameter as measured by a diameter monitor (15) during the draw processing in order to maintain a relatively constant fiber diameter. Maintaining the preform downfeed rate constant even at high draw rates in excess of 20 meters per second does not adversely effect the draw process and is believed to reduce or eliminate oscillations in the draw control loop that can cause variations in the core shape during fiber formation, resulting in reduced PMD and improved MFD uniformity.

IPC 1-7

C03B 37/02; C03B 37/025; C03B 37/07

IPC 8 full level

G02B 6/00 (2006.01); **C03B 37/025** (2006.01); **C03B 37/027** (2006.01)

CPC (source: EP KR)

C03B 37/02 (2013.01 - KR); **C03B 37/0253** (2013.01 - EP); C03B 2205/06 (2013.01 - EP); C03B 2205/40 (2013.01 - EP); C03B 2205/42 (2013.01 - EP); C03B 2205/44 (2013.01 - EP); C03B 2205/72 (2013.01 - EP)

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