

3 Documents

Publication numbers	Title	Current assignees
GB200506146 D0	Process for introducing a gas into a polymer	ZOTEFOAMS
EP1059327 A1	Heat-resistant polymer foam	NITTO DENKO
WO200043193 A1	Microcellular polymer foams and method for their production	SENG C TAN, ...

ZOTEFOAMS

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Title

(EP1059327)

Heat-resistant polymer foam

Images

FIG 1

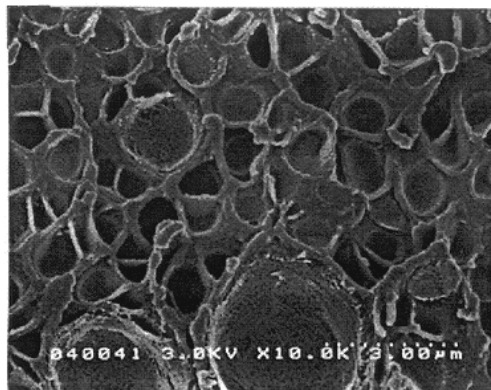


FIG 3

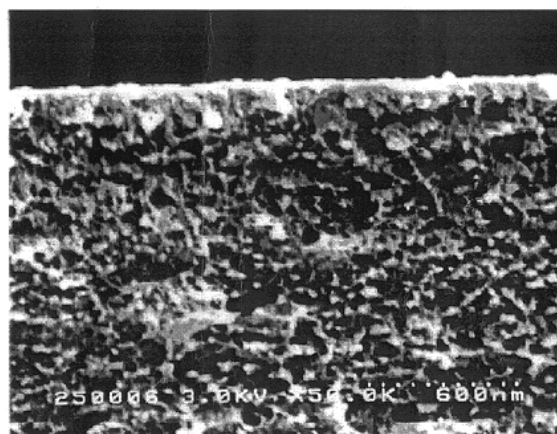
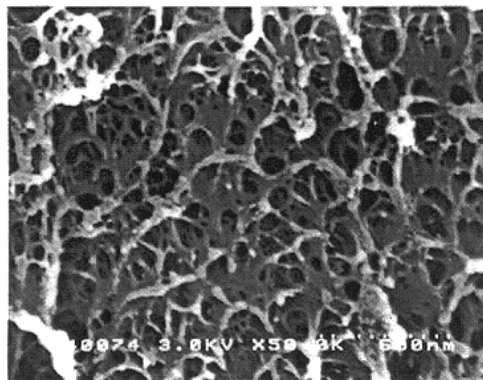


FIG 2



Publication data including kind & date

EP1059327	A1	2000-12-13	EP1059327
KR20010007220	A	2001-01-26	KR20010007220
JP2001055464	A	2001-02-27	JP2001055464
US2001031794	A1	2001-10-18	US20010031794
US6503427	B1	2003-01-07	US6503427
EP1059327	B1	2005-03-23	EP1059327
DE60018844	D1	2005-04-28	DE60018844
DE60018844	T2	2005-08-11	DE60018844
KR100665410	B1	2007-01-04	KR100665410
TWI280254	B	2007-05-01	TWI280254
JP4117986	B2	2008-07-16	JP4117986



Abstract

(EP1059327)

A heat-resistant polymer foam is disclosed which has excellent heat resistance, a fine cellular structure, and a low apparent density. The heat-resistant polymer foam comprises a heat-resistant polymer having a glass transition point of 120 DEG C or higher, e.g., a polyimide or polyether imide, and has an average cell diameter of from 0.01 μ m to less than 10 μ m. This heat-resistant polymer foam can be produced by, for example, impregnating a heat-resistant polymer under pressure with a non-reactive gas such as carbon dioxide, which is in, e.g., a supercritical state, reducing the pressure, and

then heating the polymer at a temperature exceeding 120 DEG C to foam the polymer. <IMAGE>

Inventors

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Latest standardized assignees - inventors removed

NITTO DENKO

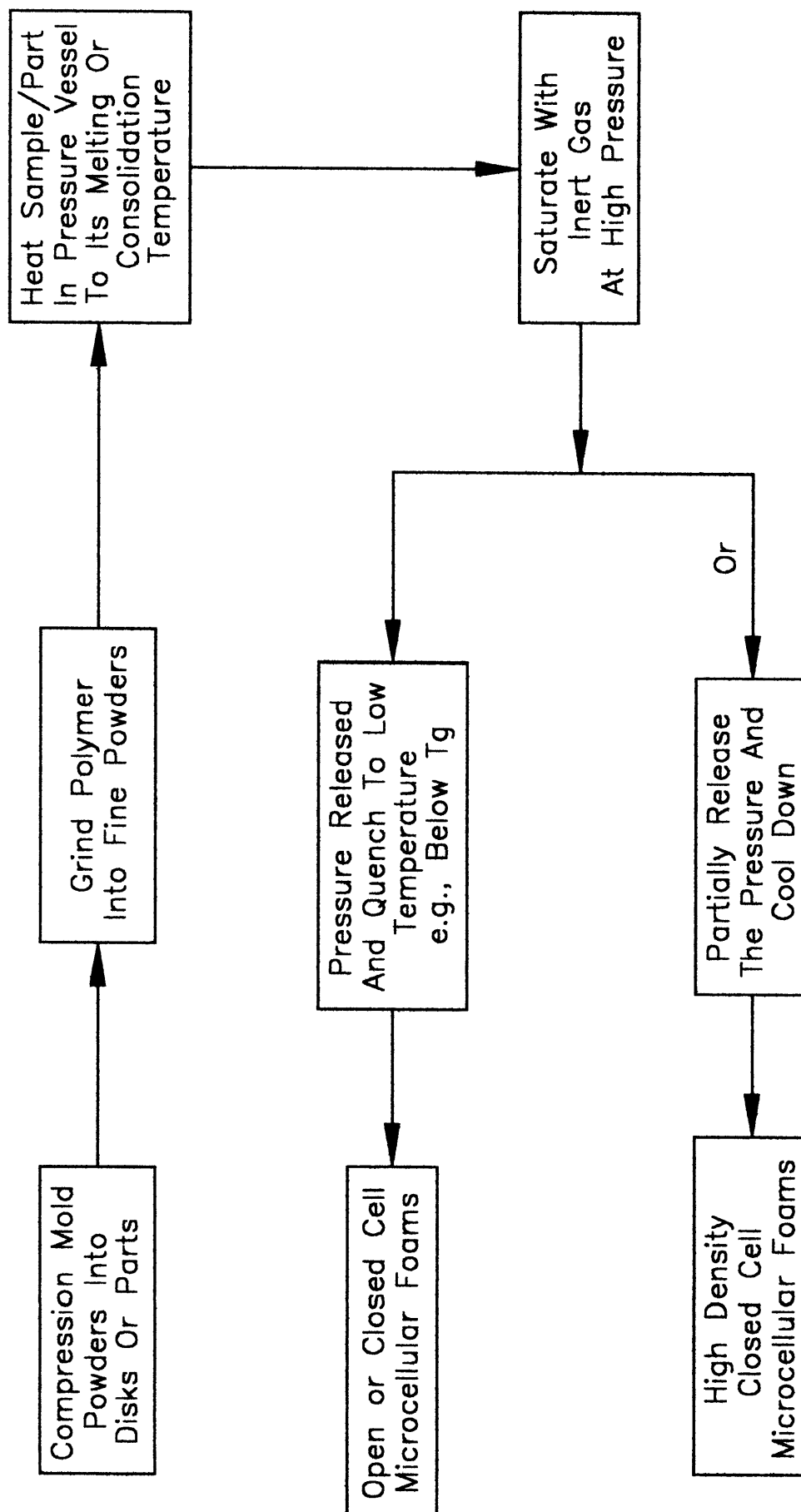
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Title

(EP1163105)

Microcellular polymer foams and method for their production

Images

**FIG. 1**

AU2853800	A	2000-08-07	AU200028538
US6232354	B1	2001-05-15	US6232354
EP1163105	A1	2001-12-19	EP1163105
EP1163105	A4	2004-04-07	EP1163105

**Abstract**

(EP1163105)

An environmentally friendly, commercially practicable process for the production of microcellular polymer foams from amorphous, semi-crystalline and crystalline polymers that comprises consolidating the polymer into a polymer shape, saturating the polymer shape with an inert gas at elevated temperature, above the T_g of the polymer, and under elevated pressure, releasing the pressure and cooling, i.e. quenching, the saturated polymer shape under controlled temperature and pressure conditions to produce either a closed or open celled, low to medium density microcellular foam or a closed cell, high density microcellular foam.

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