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(71) Applicant (for all designated States except US): **NOVARA TECHNOLOGY S.R.L.** [IT/IT]; Via Fauser, 4, I-28100 Novara (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOARA, Giulio** [IT/IT]; Via Moloise, 16, I-26013 Crema (IT). **PE-DRETTI, Simone** [IT/IT]; Via San Giovanni, 105, I-28047 Oleggio (IT). **RÜCKEMANN, Andreas** [DE/IT]; Via Vecchia Circonvallazione, 5L, I-28047 Oleggio (IT). **SPARPAGLIONE, Massimo** [IT/IT]; Via Gorizia, 1, I-20097 S. Donato Milanese (IT).

(74) Agents: **WEBER, Wolfgang** et al.; European Patent Attorney, c/o Degussa AG, Intellectual Property Management, Postfach 13 45, 63403 Hanau (DE).

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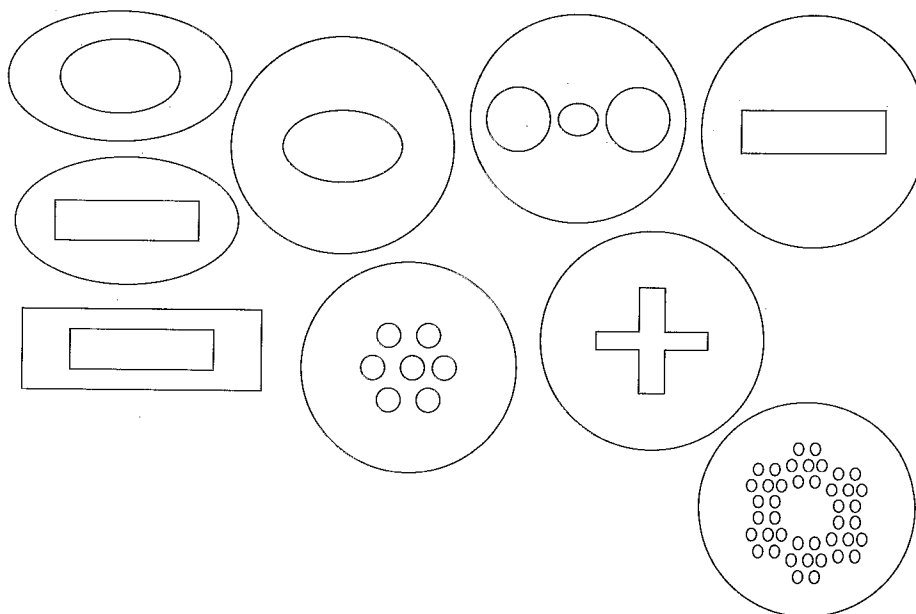
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(54) Title: SILICON OXIDE BASED ARTICLES



(57) Abstract: Particularly shaped articles constituted by silicon oxide, as such or with suitable additives, prepared by room temperature molding according to a process comprising: preparation of a sol starting from a silicon alcoxide, or from a silicon alcoxide and at least a precursor of at least one of the additional elements; hydrolysis of the sol obtained thereby; addition of colloidal silica; pouring the resulting mixture into the desired mould; sol gelling and fast removal of the solid product; gel drying; gel densification by means of a thermal treatment at temperature ranging from 900 °C to 1500 °C. The articles can be used as preforms for the optical fiber spinning.

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