

(19) World Intellectual Property Organization
International Bureau



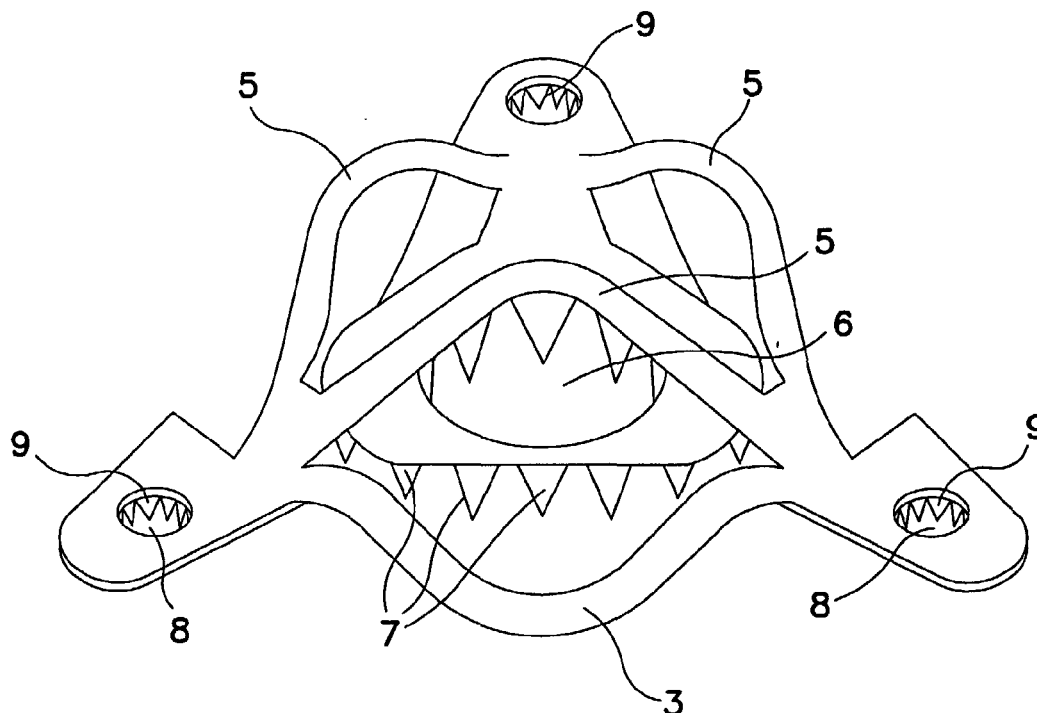
(43) International Publication Date
23 May 2002 (23.05.2002)

PCT

(10) International Publication Number
WO 02/40148 A2

- (51) International Patent Classification⁷: **B01J 19/00** (72) Inventor: **NIKNAFS, Hassan, S.**; 3986 Lake Run Boulevard, Stow, OH 44224 (US).
- (21) International Application Number: PCT/US01/43458 (74) Agents: **DAVIS, Anthony, G., M.**; Davis & Bujold, P.L.L.C., Fourth Floor, 500 North Commercial Street, Manchester, NH 03101 et al. (US).
- (22) International Filing Date:
6 November 2001 (06.11.2001) (81) Designated States (*national*): AU, BR, CA, CN, CZ, DE, ES, GB, HU, IN, JP, KR, MX, PL, RU, SE, SG, ZA.
- (25) Filing Language: English (81) Designated States (*national*): AU, BR, CA, CN, CZ, DE, ES, GB, HU, IN, JP, KR, MX, PL, RU, SE, SG, ZA.
- (26) Publication Language: English
- (30) Priority Data:
09/713,371 14 November 2000 (14.11.2000) US Published:
— without international search report and to be republished upon receipt of that report
- (71) Applicant: **SAINT-GOBAIN NORPRO CORPORATION** [US/US]; 3855 Fishcreek Road, Stow, OH 44224 (US). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVED RANDOM PACKING ELEMENT



(57) Abstract: The invention provides a novel improved packing element having the basic shape of a polygon with arches formed around the periphery by deforming the edge area in one direction and an area axially within the edge area to form arches projecting in the opposite direction and providing an axially located aperture. Such packing elements can be conveniently formed using a simple cutting and stamping operation.

WO 02/40148 A2