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(21) International Application Number: PCT/US98/10559 (22) International Filing Date: 21 May 1998 (21.05.98) (30) Priority Data: 60/047,823 28 May 1997 (28.05.97) US (71) Applicant: DRESSER INDUSTRIES, INC. [US/US]; Suite 4100, 2001 Ross Avenue, Dallas, TX 75201-2980 (US). (72) Inventor: SAXMAN, William, C.; 8616 Elderberry Court, Dallas, TX 75249 (US). (74) Agent: FELGER, Thomas, R.; Baker & Botts, L.L.P., 2001 Ross Avenue, Dallas, TX 75201-2980 (US).		(81) Designated States: CN, ID, MX, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: ENCAPSULATED ELASTOMERIC RELIEF VALVE (57) Abstract A relief valve (40) for use in roller cone drilling bits of the sealed bearing type and other types of sealed fluid systems. The relief valve (40) includes a valve body (44) arranged to fit into the lubricating system of the bit and an elastomeric valve member (42) having a flow port therein that is normally closed. The valve member (42) includes a flexible lip (48) defining the port that is arranged to permit flow in one direction through the port to relieve pressure above a predetermined value while preventing flow therethrough in the opposite direction.		