

(57) **Abrégé(suite)/Abstract(continued):**

transparent element of the heavy lanthanoids is used to stabilise zirconium oxide. Due to the excellent transparency of such observation windows (7) produced by means of a cubically stabilised zirconium oxide monocrystal, they are especially suitable for monitoring processes in situ in closed vessels such as the above-mentioned reaction vessels and the like, the processes being monitored either optically by means of photographic appliances or video appliances (1), or by means of spectroscopic methods.

