

ABSTRACT

SOLID SOURCE PRECURSOR VESSEL

The present disclosure is generally directed to a solid source precursor delivery system. More specifically, the present disclosure is directed to a solid source precursor vessel that can be utilized to vaporize a supply of solid precursor stored within the vessel. The disclosed source vessel utilizes a plurality of individual cavities or pockets within the interior of the vessel. Each individual pocket may be loaded with precursor. In an arrangement, the pockets may be loaded with pre-formed blocks of compressed precursor material that typically have a higher density than was previously achieved when packing solid precursor within a source vessel. The increased density of the solid precursor material increases a capacity of the source vessel resulting in longer intervals between replacement and/or refilling the source vessel.

Fig. 2