

COATING FOR REDUCING OPERATING TEMPERATURES
OF CHAMBER COMPONENTS OF A COATING APPARATUS

ABSTRACT OF THE DISCLOSURE

A component (10) for use in a high-temperature environment such as the coating chamber of a PVD apparatus. A reflective coating (14) on the component (10) serves as a barrier to radiant heat transfer to the component (10) by reflecting thermal radiation. The coating (14) comprises at least one pair of reflective layers (16, 18, 20, 22), each layer (16, 18, 20, 22) being formed of a material that is essentially transparent to electromagnetic wavelengths of between 500 and 3000 nanometers (nm). In addition, the material of the outermost layer (18, 22) of the pair (16, 18, 20, 22) has a higher index of refraction than the material of the other layer (16, 20) of the pair (16, 18, 20, 22).

Fig.1

This Sheet Has Been Replaced

