

IMAGING SYSTEM FOR INSPECTING COMPONENTS OF TURBOMACHINES AND METHOD OF ASSEMBLY THEREOF

ABSTRACT OF THE DISCLOSURE

An imaging system includes a sight tube extending along a longitudinal axis of the imaging system and configured to extend through an access port. The sight tube includes a wall extending about the longitudinal axis and defining a cavity. The imaging system also includes a plurality of cooling channels extending through the sight tube. The plurality of cooling channels are configured to direct cooling fluid through the sight tube for cooling the imaging system. The plurality of cooling channels are formed in the sight tube such that at least one cooling channel of the plurality of cooling channels extends in a direction oblique to the longitudinal axis.

[Figure 1]