POWDER FOR A SPRAY-COATING PROCESS AND METHOD OF FORMING THE POWDER, SPRAY-COATING LAYER USING THE POWDER AND METHOD OF FORMING THE SAME

ABSTRACT OF THE DISCLOSURE

In a spray powder for a spray-coating process, the spray powder includes particles having an average diameter of about 20 μm to about 60 μm and generated from a slurry mixture including a first slurry and a second slurry. The first slurry includes yttrium oxide particles having diameters of about 0.01 μm to about 2 μm, a first dispersing agent for uniformly dispersing the yttrium oxide particles, a first bonding agent for bonding the yttrium oxide particles, and a first solvent. The second slurry includes aluminum oxide particles having diameters of about 0.5 μm to about 2 μm, a second dispersing agent for uniformly dispersing the aluminum oxide particles, a second bonding agent for bonding the yttrium oxide particles, and a second solvent.

Figure 2 accompanies the abstract.