CLAIMS

1. An alloy material, comprising:

a composition containing 17 at% to 25 at% of silver (Ag), 30 at% to 45 at% of palladium (Pd), and 30 at% to 53 at% of copper (Cu) in a composition range of a ternary alloy of Ag, Pd, and Cu; and

at least one of manganese (Mn), tin (Sn), silicon (Si), antimony (Sb), titanium (Ti) and magnesium (Mg) added to the composition in a range of 4.5 at% or less in total,

wherein the Mn in a range of 0.5 at% to 3.5 at%, the Sn in a range of 1 at% to 2 at%, the Si in a range of 0.5 at% to 2 at%, the Sb in a range of 0.5 at% to 3 at%, the Ti in a range of 0.5 at% to 2 at%, and the Mg in a range of 0.5 at% to 3.5 at% are added to the composition, and

one of iridium (Ir), ruthenium (Ru) and a combination of Ir and Ru is further added in an amount within a range of 0.01 at% to 0.05 at%.

2. The alloy material according to Claim 1, wherein Vickers hardness is HV 480 to 560 after heating at 300°C to 450°C and aging.

3. A conductive contact probe contacting with each of contact targets at both ends in a longitudinal direction,

at least part of which is formed using the alloy material according to Claim 1 or 2.

4. The conductive contact probe according to Claim 3, comprising:

a first conductive plunger contacting with one of contact targets at one end;

a second conductive plunger contacting with other one of the contact targets at the other end; and

a coil spring arranged between the first plunger and the second plunger so as to elastically connect the first and the second plungers with each other,

wherein at least one of the first plunger, the second plunger, and the coil spring consists of the alloy material.

5. A conductive connection terminal contacting with each of contact targets at both ends in a longitudinal direction,

at least part of which is formed using the alloy material according to Claim 1 or 2.