I Claim;

~~1. An alloy composition for at least 90.0% by weight of silver with improved mechanical properties comprising;~~

~~i. 0.01to 1.5% by weight of zirconium;~~

~~ii. 0.01 to 1.5% by weight of magnesium;~~

~~iii. 0.01 to 1.5% by weight of titanium;~~

~~and wherein the balance is copper;~~.

~~2.~~1.~~The~~ An alloy composition ~~with improved mechanical properties as claimed in claim 1,~~ comprising;

i. 90.0% to 99.5% by weight of silver;
ii. 0.01 to 1.5% by weight of zirconium;
iii. 0.01 to 1.5% by weight of magnesium;
iv. 0.01 to 1.5% by weight of titanium; and
v. ~~0.1 to 9.97 % by weight of copper~~the balance is copper.

~~3.~~2.The alloy composition ~~with improved mechanical properties~~ as claimed in claim ~~2~~1, comprising;

i. 92.5% by weight of silver;
ii. 0.15% by weight of zirconium;
iii. 0.15% by weight of magnesium;
iv. 0.15% by weight of titanium; and
v. 7.05% by weight of copper.

~~4.~~3.The alloy composition ~~with improved mechanical properties~~ as claimed in claim ~~2,~~1 comprising;

i. 97% by weight of silver;
ii. 0.15% by weight of zirconium;
iii. 0.15% by weight of magnesium;
iv. 0.15% by weight of titanium; and
v. 2.55% by weight of copper.

~~5.~~4. The alloy composition ~~with improved mechanical properties~~ as claimed in any of the claims 1-~~4~~ 3, wherein the alloy composition has (i) “as cast” hardness in the range of 130-150HV; and (ii) “cold worked hardness” in the range of 150-180HV after cold work hardened (60%)~~; workable springiness, reduced specific gravity and is resistant to wear and tear~~.