What is claimed is:

1. A gold alloy for making a bonding wire drawn to a diameter of 20 εm or less, ~~which is made from~~the gold alloy consisting a gold alloy matrix and minor trace elements ~~added to the gold alloy matrix~~,

said gold alloy matrix ~~comprising~~ consisting at least one out of palladium, platinum and copper, which have a purity of no less than 99.9 mass %, in a total amount of 0.05 to 2 mass % and gold of a purity of no less than 99.999 mass %, and

said minor trace elements consist of calcium in an amount of 5 - 50 mass ppm, magnesium in an amount of 5 - 50 mass ppm, and lanthanum in an amount of 5 - 50 mass ppm.

2. A gold alloy for making a bonding wire drawn to a diameter of 20 εm or less, ~~which is made from~~ the gold alloy consisting a gold alloy matrix and minor trace elements ~~added to the gold alloy matrix~~,

said gold alloy matrix ~~comprising~~ consisting at least one out of palladium, platinum and copper, which have a purity of no less than 99.9 mass %, in a total amount of 0.05 to 2 mass % and gold of a purity of no less than 99.999 mass %, and

said minor trace elements consist of calcium in an amount of 5 - 50 mass ppm, magnesium in an amount of 5 - 50 mass ppm, lanthanum in an amount of 5 - 50 mass ppm, and beryllium in an amount of 1 - 20 mass ppm.

3. A gold alloy for making a bonding wire drawn to a diameter of 20 εm or less, the gold alloy consisting ~~which is made from~~ a gold alloy matrix and minor trace elements ~~added to the gold alloy matrix~~,

said gold alloy matrix ~~comprising~~ consisting at least one out of palladium, platinum and copper, which have a purity of no less than 99.9 mass %, in a total amount of 0.05 to 2 mass % and gold of a purity of no less than 99.999 mass %, and

said minor trace elements consist of calcium in an amount of 5 - 50 mass ppm, magnesium in an amount of 5 - 50 mass ppm, lanthanum in an amount of 5 - 50 mass ppm, and also at least one of cerium, yttrium and europium in a total amount of 1 -30 mass ppm.

4. A gold alloy for making a bonding wire drawn to a diameter of 20 εm or less, the gold alloy consisting~~which is made from~~ a gold alloy matrix and minor trace elements ~~added to the gold alloy matrix~~,

said gold alloy matrix ~~comprising~~ consisting at least one out of palladium, platinum and copper, which have a purity of no less than 99.9 mass %, in a total amount of 0.05 to 2 mass % and gold of a purity of no less than 99.999 mass %, and

said minor trace elements consist of calcium in an amount of 5 - 50 mass ppm, magnesium in an amount of 5 - 50 mass ppm, lanthanum in an amount of 5 - 50 mass ppm, beryllium in an amount of 1 - 20 mass ppm, and also at least one of cerium, yttrium and europium in a total amount of 1 - 30 mass ppm.

5. A gold alloy for making a bonding wire as claimed in any one of claims 1 through 4, wherein a total amount of all minor trace elements is 100 mass ppm or smaller.

6. A gold alloy bonding wire drawn to a diameter of 20 εm or less, said gold alloy boding wire made from the gold alloy as claimed in any one of the claims 1 to 5.