WHAT IS CLAIMED IS:

1. A grinding wheel comprising:

a circular disc-shaped base having a fixed disc-shaped surface for contact with a mount of a grinding apparatus and an exposed disc-shaped surface on an opposite surface to the fixed disc-shaped surface; and

a plurality of parallelopiped-shaped abrasive stone chips each having first and second opposing planar sides and first, second, third and fourth edges surrounding the first and second planar sides, the plurality of parallelopiped-shaped abrasive stone chips being oriented with the first and second opposing planar sides perpendicular to the exposed disc-shaped surface and arranged in a ring manner on the exposed disc-shaped surface of the base,

wherein the plurality of parallelopiped-shaped abrasive stone chips include two or more alternating kinds of plate-shaped abrasive stone members containing different compositions of abrasive grains and a binder, and

a selected edge of the abrasive stone chips serve as a grinding processing surface when in contact with a work piece.

2. The grinding wheel according to claim 1,

wherein material of the binder is any of a metal, a ceramic material, and a resin.

3. The grinding wheel according to claim 1,

wherein the different compositions differ in grain size of the abrasive grains.

4. The grinding wheel according to claim 1,

wherein the different compositions differ in a blending ratio of the abrasive grains.

5. The grinding wheel according to claim 1,

wherein the different compositions differ in material of the binder.

6. The grinding wheel according to claim 1,

wherein the different compositions differ in porosity.