

ABSTRACT

A cutting insert of the present invention includes an upper surface; a lower surface; a side surface which is connected to the upper surface and the lower surface and has a first side surface and a second side surface in order; and a cutting edge includes a first flat cutting edge and a first major cutting edge in order in an intersection region of the first side surface and the upper surface, and has a second flat cutting edge and a second major cutting edge in order in an intersection region of the second side surface and the upper surface. The first side surface includes a first chamfered side surface with a curved shape, a first corner side surface with a planar shape, and a first major side surface in order. The second side surface includes a second chamfered side surface with a curved shape, a second corner side surface with a planar shape, and a second major side surface in order. The intersection region of the second side surface and the upper surface includes a first intersection region of the second chamfered side surface and the upper surface, and a second intersection region of the second corner side surface and the upper surface. The second flat cutting edge is located from the first intersection region to the second intersection region, and has a lowermost portion in the first intersection region in a side view. A

Inventor: Hirohisa ISHI

Attorney Docket No.: 10P01586 US

cutting tool including the cutting insert, and a method of manufacturing a machined product using the cutting tool are also provided.