WHAT IS CLAIMED IS:

1. A flange for fixing a cutting blade to a spindle in a cutting apparatus that includes the spindle with the cutting blade fixed to a tip thereof, the cutting blade having an annular cutting edge, a holding unit which holds a workpiece to be cut by the cutting blade fixed to the tip of the spindle, and a cutting liquid supply nozzle which supplies a cutting liquid to the cutting blade during cutting of the workpiece held by the holding unit, the flange comprising:

a front flange and a rear flange that clamp the cutting blade therebetween,

wherein the front flange has a first outer circumferential part smaller in diameter than the cutting blade and a second outer circumferential part smaller in diameter than the first outer circumferential part, a clamping surface making contact with a front surface of the cutting blade is formed at an end face of the second outer circumferential part on a side opposite to the first outer circumferential part, and a diameter of an outer circumferential surface of the second outer circumferential part is configured to be the same in an axial direction of the front flange or is configured to be enlarged as a distance from the cutting blade

increases, and a wall surface opposed to the front surface of the cutting blade is formed between the first outer circumferential part and the second outer circumferential part, and a first recessed space surrounded by the wall surface, the front surface of the cutting blade, and the outer circumferential surface of the second outer circumferential part is formed in a circumferential direction of the front flange, and

the rear flange has a first outer circumferential part smaller in diameter than the cutting blade and a second outer circumferential part smaller in diameter than the first outer circumferential part, a clamping surface making contact with a rear surface of the cutting blade is formed at an end face of the second outer circumferential part on a side opposite to the first outer circumferential part, and a diameter of an outer circumferential surface of the second outer circumferential part is configured to be the same in an axial direction of the rear flange or is configured to be enlarged as a distance from the cutting blade increases, and a wall surface opposed to the rear surface of the cutting blade is formed between the first outer circumferential part and the second outer circumferential part, and a second recessed space surrounded by the wall

surface, the rear surface of the cutting blade, and the outer circumferential surface of the second outer circumferential part is formed in a circumferential direction of the rear flange,

whereby, at a time when the cutting blade is clamped between the front flange and the rear flange, the first recessed space and the second recessed space are formed on both sides of the cutting blade along a circumferential direction of the front flange and the rear flange, and the cutting liquid supplied from the cutting liquid supply nozzle to an outer circumferential part of the cutting blade during cutting of the workpiece enters the first recessed space and the second recessed space, and is splashed back in the first recessed space and the second recessed space by the outer circumferential surfaces of the second outer circumferential parts of each of the front flange and the rear flange, to be supplied to a cutting region of an upper surface of the workpiece.

2. The flange according to claim 1, wherein, in addition to the first recessed space and the second recessed space, recessed spaces are additionally provided at an outer circumferential part of each of the front flange and the rear flange.