[0015]

In order to achieve the above-described object, this invention proposes the following means.

[0016]

According to a first aspect of the present invention, there is provided a concrete member cutting device for cutting/dismantling a concrete member. The device includes an adapter attached to a base machine so as to support the cutting device, a guide frame to be integrally attached to the adapter, and a wire saw mechanism to be supported by the guide frame. The wire saw mechanism includes a plurality of pulleys, and a wire saw which is wound around the plurality of pulleys in an endless loop shape so as to cyclically pivot by rotationally driving a drive pulley among the plurality of pulleys. The plurality of pulleys include the drive pulley which is rotationally driven, a guide pulley for supporting the wire saw so as to be pivotable, a tension pulley which is arranged so as to be movable forward and rearward in a forward-rearward direction so as to adjust a tension of the wire saw, a pair of right and left propulsion pulleys arranged so as to be movable forward and rearward in the forward-rearward direction, and a pair of right and left draw cutting propulsion support pulleys arranged so as to be movable forward and rearward in the forward-rearward direction by being connected to the pair of propulsion pulleys, and arranged so that the wire saw therebetween cuts the concrete member and receives a reaction force.

[0017]

According to a second aspect of the present invention, there is provided a concrete member dismantling method of dismantling a concrete member of an RC structure or an SRC structure erected in an upward-downward direction.

CLAIMS

What is claimed is:

1. A concrete member cutting device for cutting/dismantling a concrete member, the device comprising:

an adapter which is attached to a base machine so as to support the cutting device;

a guide frame which is integrally attached to the adapter; and

a wire saw mechanism which is supported by the guide frame,

wherein the wire saw mechanism includes

a plurality of pulleys, and

a wire saw which is wound around the plurality of pulleys in an endless loop shape so as to cyclically pivot by rotationally driving a drive pulley among the plurality of pulleys, and

wherein the plurality of pulleys include

the drive pulley which is rotationally driven,

a guide pulley for supporting the wire saw so as to be pivotable,

a tension pulley which is arranged so as to be movable forward and rearward in a forward-rearward direction so as to adjust a tension of the wire saw,

a pair of right and left propulsion pulleys arranged so as to be movable forward and rearward in the forward-rearward direction, and

a pair of right and left draw cutting propulsion support pulleys arranged so as to be movable forward and rearward in the forward-rearward direction by being connected to the pair of propulsion pulleys, and arranged so that the wire saw therebetween cuts the concrete member and receives a