

WORKING DEVICE ENERGY RECOVERY SYSTEM

ABSTRACT

Disclosed is a working device energy recovery system, including energy converters, a
5 pressure energy retaining valve, a switchover valve, an energy collector, a logical control
member, a main valve, a boom and corresponding connections. With the system,
dropping potential energy of the boom can be controllably converted to hydraulic energy to
be stored in the energy collector, and the potential energy can also be directly recycled to
do work on the boom in a balancing manner, thereby reducing heat generated by a
10 hydraulic system, reducing input power of a prime mover, and achieving the objective of
saving energy.

FIG. 1