

Abstract of the DisclosureA Coupling Device For A Work Implement

5 In the operation of construction machinery,
it is often desirable to be able to utilize a variety
of implements on a single machine. While it extremely
important to be able to attach and detach these
10 implements very quickly, many mechanisms suffer trade-
offs in a variety of design parameters. The coupling
device of the subject invention utilizes a locking
arrangement (58) that provides a positive coupling
force upon initial engagement of the device and
maintains the positive force throughout the entire
15 operation of each work implement (12). All of the
components in the coupling device are maintained in
linear alignment with the mounting components of the
machine linkage to reduce the magnitude of operational
forces transmitted therebetween and to provide a
20 device that is extremely compact and versatile in
design.