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Guided By

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Project Title

AN ATTEMPT TO IMPROVE THE SAFETY SYSTEM OF BENCH SAW

Abstract:

A bench Saw is a woodworking tool consisting of a circular saw blade, mounted on an arbor, that is driven by an electric motor (either directly, by belt or by gears). The blade stick out through the surface of a table, which provides support for the material, usually wood, being cut.

Because a cutter which is used in this machine is very sharp and rotates at very high speed. so while man working on this machine many time some body parts comes in contact with this cutter and major accidents will occurs like cutting of thumb and cutting of hand of human.

A bench saw having an adjustable blade, a safety system to detect contact between a human body and the blade, and a brake mechanism to engage and stop the blade upon detection of contact between the human body and the blade is disclosed. The saw also may include a retraction system that urges the blade downward, away from a user, upon detection of contact between a person and the blade.

The retraction system may include a releasable gear. The saw may be constructed so

that the blade is adjustable up and down around a pivot point downstream of the blade relative to the feed direction.

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