

Title (en)

Safety devices for mechanically operated apparatus such as punch presses.

Title (de)

Sicherheitsvorrichtungen für mechanisch angetriebene Einrichtungen wie Stanzpressen.

Title (fr)

Dispositifs de sécurité pour des appareils entraînés mécaniquement tels que des presses à poinçonner.

Publication

**EP 0005634 A1 19791128 (EN)**

Application

**EP 79300872 A 19790518**

Priority

US 90844278 A 19780522

Abstract (en)

A safety device for mechanically-operated apparatus, such as a flywheel-driven punch press, consists of a hook-providing coupling member (34,36) for mounting on the press crank shaft (22), and a cooperating coupling member (38,40) for connection to the apparatus body via a power-absorbing member (52-60). The coupling members (36,40) rest in the coupled position and are moved momentarily to the uncoupled position upon initiation of an operation by the operator. If therefore the movable member (20) of the press continues to move after the normal termination of the cycle the coupled members (36, 40) connect the movable member (20) to the power-absorbing member (52-60) so that the movable member (20) is brought to a stop before the press die parts can close. The power-absorbing member (52-60) preferably is a hydraulic piston (54) and cylinder (52) device connected between one coupling member and the press body, the liquid in the cylinder interior becoming pressurised and discharging via a pre-set relief valve or calibrated orifice (58,60) when the device is operative.

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**B30B 15/28**

IPC 8 full level

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CPC (source: EP)

**B30B 15/288** (2013.01)

Citation (search report)

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