

CPC**COOPERATIVE PATENT CLASSIFICATION****F16P****SAFETY DEVICES IN GENERAL; {SAFETY DEVICES FOR PRESSES}****NOTE**

Attention is drawn to the following places:

A01D 75/18	Harvesting machines
A01F 21/00	Threshing machines or baling presses
B02C 23/04	Crushing or disintegrating machines
B21B 33/00	Rolling of metal
B21D 55/00	Working sheet metal or tubes, rods or profiles without essentially removing material
B23B 25/04	Turning-machines
B23Q 11/00	Machine tools
B24B 55/00	Grinding or polishing machines
B25J 19/06	Manipulators
B26D 7/22	Cutting machines
B27G 19/00	Wood saws
B65B 57/00	Packaging machines or apparatus
B65G 43/00	Conveyers
B65H 26/00	Web-advancing mechanisms
B65H 63/00	Handling or winding of thin or filamentary material
D01G 31/00	Treatment of fibres
D01H 13/14	Spinning or twisting
D05B 83/00	Sewing machines
F21V 25/00	Lighting devices.

Devices protecting or preventing injuries to people**F16P 1/00**

Safety devices independent of the control and operation of any machine
(protective devices for the eyes or ears, worn on the body or carried in the hand,
[A61F 9/00](#), [A61F 11/00](#))

F16P 1/005

- {Guards for rolls in calandering or other roll machines, e.g. nip guards, finger guards}

F16P 1/02

- Fixed screens or hoods

F16P 1/04

- Screens or hoods rotating with rotary shafts

F16P 1/06

- specially designed for welding

F16P 3/00 Safety devices acting in conjunction with the control or operation of a machine; Control arrangements requiring the simultaneous use of two or more parts of the body ([F16P 5/00](#) takes precedence)

- F16P 3/001 . {Safety devices for guarding the human operator of punch presses or like machine tools performing an opening and closing travel}
- F16P 3/003 . . {by application of a specific control arrangement, e.g. specific switching systems or two-hand control}
- F16P 3/005 . . {having a movable screen or a sensor influencing the switching system}
- F16P 3/006 . . {having a screen moving with the machine and moving the operator out of danger, or restraining the operator, without influencing the switching system}
- F16P 3/008 . {Devices for directly stopping or interrupting the drive or gear in case of danger to the machine, e.g. devices with clutches}
- F16P 3/02 . Screens or other safety members moving in synchronism with members which move to and fro
- F16P 3/04 . . for machines with parts which approach one another during operation, e.g. for stamping presses
- F16P 3/06 . . . in which body parts of the operator are removed from the danger zone on approach of the machine parts
- F16P 3/08 . in connection with the locking of doors, covers, guards, or like members giving access to moving machine parts
- F16P 3/10 . . in which the operation of locking the door or other member causes the machine to start
- F16P 3/12 . with means, e.g. feelers, which in case of the presence of a body part of a person in or near the danger zone influence the control or operation of the machine ([F16P 3/08](#) takes precedence)
- F16P 3/125 . . {Guards for rolls in calandering or other roll machines, e.g. nip guards, finger guards}
- F16P 3/14 . . the means being photocells or other devices sensitive without mechanical contact

WARNING

Subgroups of [F16P 3/14](#) are not complete pending a reorganisation, see also [F16P 3/14](#)

- F16P 3/141 . . . {using sound propagation, e.g. sonar}
- F16P 3/142 . . . {using image capturing devices}
- F16P 3/144 . . . {using light grids}
- F16P 3/145 . . . {using magnetic technology}
- F16P 3/147 . . . {using electro-magnetic technology, e.g. tags or radar}
- F16P 3/148 . . . {using capacitive technology}
- F16P 3/16 . . with feeling members moved by the machine
- F16P 3/18 . Control arrangements requiring the use of both hands
- F16P 3/20 . . for electric control systems
- F16P 3/22 . . for hydraulic or pneumatic control systems
- F16P 3/24 . . for mechanical controls

F16P 5/00 **Emergency means for rendering ineffective a coupling conveying reciprocating movement if the motion of the driven part is prematurely resisted**

- F16P 5/005 . {Overload protection by energy absorbing components, e.g. breaker blocks, shear sections}

F16P 7/00 **Emergency devices preventing damage to a machine or apparatus**
([F16P 1/00](#), [F16P 3/00](#), [F16P 5/00](#) take precedence; indicating means, see the appropriate classes)

- F16P 7/02 . by causing the machine to stop on the occurrence of dangerous conditions therein ([devices in bearings affected by abnormal conditions F16C](#))