

# CPC COOPERATIVE PATENT CLASSIFICATION

## F16P SAFETY DEVICES IN GENERAL; {SAFETY DEVICES FOR PRESSES}

### NOTE

Attention is drawn to the following places:

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

### Devices protecting or preventing injuries to people

<b>1/00</b>	<b>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, <a href="#">A61F 9/00</a>, <a href="#">A61F 11/00</a>)</b>	3/06	. . . in which body parts of the operator are removed from the danger zone on approach of the machine parts
1/005	. {Guards for rolls in calendering or other roll machines, e.g. nip guards, finger guards}	3/08	. in connection with the locking of doors, covers, guards, or like members giving access to moving machine parts
1/02	. Fixed screens or hoods	3/10	. . in which the operation of locking the door or other member causes the machine to start
1/04	. Screens or hoods rotating with rotary shafts	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 ( <a href="#">F16P 3/08</a> takes precedence)
1/06	. specially designed for welding	3/125	. . {Guards for rolls in calendering or other roll machines, e.g. nip guards, finger guards}
<b>3/00</b>	<b>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 (<a href="#">F16P 5/00</a> takes precedence)</b>	3/14	. . the means being photocells or other devices sensitive without mechanical contact
3/001	. {Safety devices for guarding the human operator of punch presses or like machine tools performing an opening and closing travel}	3/141	. . . {using sound propagation, e.g. sonar}
3/003	. . {by application of a specific control arrangement, e.g. specific switching systems or two-hand control}	3/142	. . . {using image capturing devices}
3/005	. . {having a movable screen or a sensor influencing the switching system}	3/144	. . . {using light grids}
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}	3/145	. . . {using magnetic technology}
3/008	. {Devices for directly stopping or interrupting the drive or gear in case of danger to the machine, e.g. devices with clutches}	3/147	. . . {using electro-magnetic technology, e.g. tags or radar}
3/02	. Screens or other safety members moving in synchronism with members which move to and fro	3/148	. . . {using capacitive technology}
3/04	. . for machines with parts which approach one another during operation, e.g. for stamping presses	3/16	. . with feeling members moved by the machine
		3/18	. Control arrangements requiring the use of both hands
		3/20	. . for electric control systems
		3/22	. . for hydraulic or pneumatic control systems
		3/24	. . for mechanical controls
		<b>5/00</b>	<b>Emergency means for rendering ineffective a coupling conveying reciprocating movement if the motion of the driven part is prematurely resisted</b>
		5/005	. {Overload protection by energy absorbing components, e.g. breaker blocks, shear sections}

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