

**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>	Conveyers
<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****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

<b>F16P 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>
F16P 3/001	<ul style="list-style-type: none"> <li>• {Safety devices for guarding the human operator of punch presses or like machine tools performing an opening and closing travel}</li> </ul>
F16P 3/003	<ul style="list-style-type: none"> <li>• • {by application of a specific control arrangement, e.g. specific switching systems or two-hand control}</li> </ul>
F16P 3/005	<ul style="list-style-type: none"> <li>• • {having a movable screen or a sensor influencing the switching system}</li> </ul>
F16P 3/006	<ul style="list-style-type: none"> <li>• • {having a screen moving with the machine and moving the operator out of danger, or restraining the operator, without influencing the switching system}</li> </ul>
F16P 3/008	<ul style="list-style-type: none"> <li>• {Devices for directly stopping or interrupting the drive or gear in case of danger to the machine, e.g. devices with clutches}</li> </ul>
F16P 3/02	<ul style="list-style-type: none"> <li>• Screens or other safety members moving in synchronism with members which move to and fro</li> </ul>
F16P 3/04	<ul style="list-style-type: none"> <li>• • for machines with parts which approach one another during operation, e.g. for stamping presses</li> </ul>
F16P 3/06	<ul style="list-style-type: none"> <li>• • • in which body parts of the operator are removed from the danger zone on approach of the machine parts</li> </ul>
F16P 3/08	<ul style="list-style-type: none"> <li>• in connection with the locking of doors, covers, guards, or like members giving access to moving machine parts</li> </ul>
F16P 3/10	<ul style="list-style-type: none"> <li>• • in which the operation of locking the door or other member causes the machine to start</li> </ul>
F16P 3/12	<ul style="list-style-type: none"> <li>• 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)</li> </ul>
F16P 3/125	<ul style="list-style-type: none"> <li>• • {Guards for rolls in calandering or other roll machines, e.g. nip guards, finger guards}</li> </ul>
F16P 3/14	<ul style="list-style-type: none"> <li>• • the means being photocells or other devices sensitive without mechanical contact</li> </ul> <p><b><u>WARNING</u></b></p> <p>Subgroups of <a href="#">F16P 3/14</a> are not complete pending a reorganisation, see also <a href="#">F16P 3/14</a></p>
F16P 3/141	<ul style="list-style-type: none"> <li>• • • {using sound propagation, e.g. sonar}</li> </ul>
F16P 3/142	<ul style="list-style-type: none"> <li>• • • {using image capturing devices}</li> </ul>
F16P 3/144	<ul style="list-style-type: none"> <li>• • • {using light grids}</li> </ul>
F16P 3/145	<ul style="list-style-type: none"> <li>• • • {using magnetic technology}</li> </ul>
F16P 3/147	<ul style="list-style-type: none"> <li>• • • {using electro-magnetic technology, e.g. tags or radar}</li> </ul>
F16P 3/148	<ul style="list-style-type: none"> <li>• • • {using capacitive technology}</li> </ul>
F16P 3/16	<ul style="list-style-type: none"> <li>• • with feeling members moved by the machine</li> </ul>
F16P 3/18	<ul style="list-style-type: none"> <li>• Control arrangements requiring the use of both hands</li> </ul>
F16P 3/20	<ul style="list-style-type: none"> <li>• • for electric control systems</li> </ul>
F16P 3/22	<ul style="list-style-type: none"> <li>• • for hydraulic or pneumatic control systems</li> </ul>
F16P 3/24	<ul style="list-style-type: none"> <li>• • for mechanical controls</li> </ul>

**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](#))