CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

ENGINEERING IN GENERAL

F16 ENGINEERING ELEMENTS AND UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS; THERMAL INSULATION IN GENERAL

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

NOTE

Attention is drawn to the following places:

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<u>A01D 75/18</u>	Harvesting machines		
<u>A01F 21/00</u>	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	Conveyors		
B65H 26/00	Web-advancing mechanisms		
B65H 63/00	Handling or winding of thin or filamentary material		
<u>D01G 31/00</u>	Treatment of fibres		
D01H 13/14	Spinning or twisting		
D05B 83/00	Sewing machines		
F21V 25/00	Lighting devices.		

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Devices prot	Devices protecting or preventing injuries to people		• • {having a movable screen or a sensor influencing
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)	3/006	 the switching system} • {having a screen moving with the machine and moving the operator out of danger, or restraining the operator, without influencing the switching system}
1/005 1/02	 {Guards for rolls in calendering or other roll machines, e.g. nip guards, finger guards} Fixed screens or hoods 	3/008	• {Devices for directly stopping or interrupting the drive or gear in case of danger to the machine, e.g.
1/04	Screens or hoods rotating with rotary shafts	3/02	devices with clutches}
1/06	specially designed for welding	3/02	 Screens or other safety members moving in synchronism with members which move to and fro
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	3/04	 for machines with parts which approach one another during operation, e.g. for stamping presses in which body parts of the operator are
3/001	 precedence) {Safety devices for guarding the human operator of punch presses or like machine tools performing an opening and closing travel} 	3/08	removed from the danger zone on approach of the machine parts in connection with the locking of doors, covers, guards, or like members giving access to moving
3/003	• {by application of a specific control arrangement, e.g. specific switching systems or two-hand control}	3/10	 machine parts in which the operation of locking the door or other member causes the machine to start

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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)
3/125	• • {Guards for rolls in calendering or other roll machines, e.g. nip guards, finger guards}
3/14	the means being photocells or other devices sensitive without mechanical contact
3/141	• • • {using sound propagation, e.g. sonar}
3/141	
-,	• • { using image capturing devices}
3/144	• • • {using light grids}
3/145	• • • {using magnetic technology}
3/147	 {using electro-magnetic technology, e.g. tags or radar}
3/148	• • • {using capacitive technology}
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
U/ 2 .	V 101 Mediament controls
5/00	Emergency means for rendering ineffective a coupling conveying reciprocating movement if the motion of the driven part is prematurely resisted
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 (<u>F16P 1/00</u> , <u>F16P 3/00</u> ,
	F16P 5/00 take precedence)
7/02	• by causing the machine to stop on the occurrence of
	dangerous conditions therein (devices in bearings
	affected by abnormal conditions <u>F16C</u>)

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