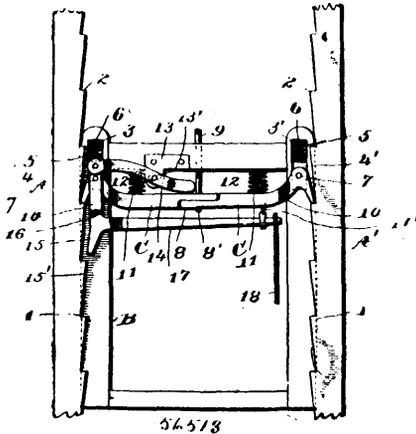
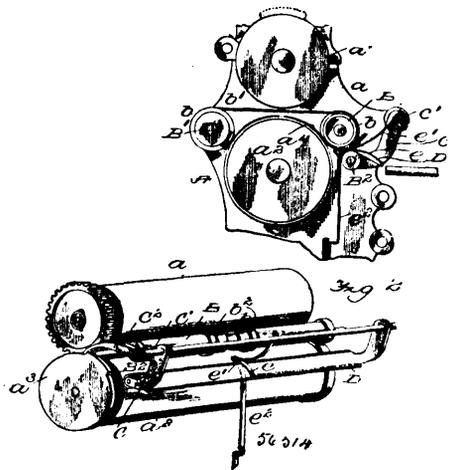


over the buffer blocks, safety catches pivotally mounted on the buffer blocks, and adapted to engage the racks and having their



inner ends lapped, springs to throw the catches into engagement and a cable link arranged over the lapped ends of the catches. 2nd. In an elevator, a safety catch device comprising a carriage frame, oppositely disposed guides for the carriage formed with racks, buffer blocks housed in the frame of the carriage, springs over the buffer blocks, safety catches pivotally mounted on the buffer blocks, and adapted to engage the racks and having their inner ends lapped, springs to throw the catches into engagement and a cable link arranged over the lapped ends of the catches, an auxiliary lever fulcrumed to its outer end connected to one of the buffer blocks, and a catch, having an actuating handle, pivotally suspended from the outer end of the auxiliary lever. 3rd. In an elevator, the combination with the guides having racks, main safety catches or levers, of an auxiliary safety device, comprising a lever fulcrumed to the carriage frame with one end arranged to bear on the arms of the safety catches and a catch arm pivotally suspended from the outer end of the said lever and having a catch portion adapted to engage one of the said racks, and a handle on the catch arm, substantially as set forth.

**No. 56,514. Printing Press. (Presse à imprimer.)**



Charles G. Harris, Niles, Ohio, U.S.A., 7th July, 1897; 6 years. (Filed 22nd March, 1897.)

*Claim.*—1st. A printing press, comprising a rotary cylinder provided with stops on its periphery, and means for feeding paper on said cylinder against said stops while the same is in motion, said paper being fed at a speed greater than that at which the cylinder is rotated, substantially as set forth. 2nd. A printing press having a rotary cylinder provided with stops on its periphery, and means, periodically operated as said stops are receding, for feeding paper up to and against said stops at a speed greater than that at which the cylinder is rotated, substantially as set forth. 3rd. A printing press having a rotary impression-cylinder and means for positioning or registering paper on said cylinder and causing the paper to travel at a speed greater than that at which the cylinder is rotated, comprising two rollers, one of said rollers being operated by the other, which latter is of varying diameter, the first-mentioned roller being designed to engage the points of greatest diameter of said latter roller, and belts engaging said impression cylinder and one

of said rollers, substantially as set forth. 4th. A printing press having a rotary impression-cylinder and means for positioning or registering paper on said cylinder and causing the paper to travel at a speed greater than that at which the cylinder is rotated, comprising a constantly-rotated roller of varying diameter, and a second roller driven by said former roller when in engagement with the points of greatest diameter of said former roller, and belts engaging said impression-cylinder and one of said rollers, substantially as set forth. 5th. A printing press having a rotary impression-cylinder provided with stops on its periphery, and mechanism for positioning or "registering" paper on said impression-cylinder against said stops while said cylinder is being rotated, comprising a constantly-rotated feed-roller, a second feed-roller designed to be periodically rotated by contact with said former feed-roller, and means for guiding the paper or the like between said feed-rollers, and holding the same until grasped by said feed-rollers and fed forward thereby, to, or against said stops, the contact of said feed-rollers being periodically effected according to the position of said impression-cylinder, substantially as set forth. 6th. A printing press having a rotary impression-cylinder and provided with stops on its periphery, and mechanism for feeding the paper at a greater speed than that at which the impression-cylinder is rotated and positioning or "registering" the same on said impression-cylinder against said stops, the same comprising a constantly-operated feed-roller having rings or enlargements, a second feed-roller, means for periodically raising said second feed-roller into frictional contact with said rings or enlargements of said former feed-roller, whereby the paper is fed forward at a speed greater than that at which the cylinder is rotated when being positioned thereon, and belts engaging said impression-cylinder and said former feed-roller, substantially as set forth. 7th. In a printing press, means for positioning the paper or the like to be printed, comprising a fixed stop, a movable tongue or bar adapted to co-operate therewith, a guide-bar or plate, and a plate-spring carried by said guide-bar or plate and in contact with said tongue with which it is designed to move, whereby when the article to be printed is fed between the said tongue and plate-spring and into contact with the stop a retrograde movement is prevented, substantially as set forth. 8th. In a printing press means for regulating or positioning the article to be printed while the cylinders of the press are being rotated, consisting of the stop or stops located on the surface of one of the cylinders of the press, and means for passing the article to be printed up to said stops at a speed greater than the speed of rotation of said cylinder, substantially as set forth. 9th. A printing press having a rotary impression cylinder and mechanism for causing the paper to travel at a greater speed than that at which the cylinder is rotated and positioning or "registering" paper on said cylinder while the latter is being rotated, the said mechanism comprising a feed-roller of varying diameter operated by said cylinder, a stop for arresting the movement of the paper, means for holding the paper against said stop, a guide-bar or plate, a second feed-roller, and means for periodically elevating said guide-bar and said latter roller, the latter being thrown into contact with the maximum circumferential portion of said former feed-roller, whereby the paper is fed to said impression-cylinder at a speed greater than the speed of rotation of the latter, substantially as set forth. 10th. In a printing press, the combination with the rotary impression-cylinder, of a feed-roller mounted in contact with said cylinder, spools in rear of said cylinder, tapes or bands passing over said spools and feed-roller and over said impression-cylinder, a second feed-roller, a guide-bar located thereover, means for holding the paper or the like while passing over said guide-bar, and means for elevating said second feed-roller into engagement with said former feed-roller, substantially as set forth. 11th. A printing press having a rotary impression-cylinder and means for positioning or registering paper on said cylinder and causing the paper to travel at a speed greater than that at which the cylinder is rotated, comprising two rotary shafts, one of said shafts being constantly rotated by the rotation of the other and capable of being moved or rocked toward and away from the latter, both of said shafts being of varying diameter, as and for the purpose set forth. 12th. A printing press having a rotary impression-cylinder and means for positioning or registering paper on said cylinder and causing the paper to travel at a speed greater than that at which the cylinder is rotated, comprising a positively-operated shaft having a gear-wheel and rings or enlargements, a second shaft having corresponding rings or enlargements, and a gear-wheel meshing with said former gear-wheel, and means for moving said latter shaft so as to bring its rings or enlargements into contact with those of the first mentioned shaft, substantially as set forth. 13th. The combination with the cylinder having stops thereon, of a positively-operated shaft having a gear-wheel and rings or enlargements, a second shaft having corresponding rings or enlargements and a gear-wheel meshing with said former gear-wheel, arms supporting said latter shaft, and means for operating said arms operated by said cylinder, substantially as set forth. 14th. The combination with the cylinder having stops thereon and a cam-disc on its journal, of a positively-operated shaft, having a gear-wheel and rings or enlargements, a second shaft also, having rings or enlargements, and a gear-wheel meshing with said former gear-wheel, supports for said second shaft, short shafts to which said supports are secured, arms on said shafts, a shaft to which said arms are connected, and an arm on said latter shaft having its free end in contact with said cam-disc, substantially as set forth.