

CROSSOVER NO DANGER IF TRAIN SLOWS DOWN

At Speed of 60 Miles an Hour Strain on Wheel and Track Is Terrific.

FLANGES ONLY SAFEGUARD

Both Connecticut Wrecks Were Caused by Engine Drivers Leaving Rails.

As far as the facts now available show in the case of the wreck of the Boston express on Thursday last near Westport the accident substantially duplicates the disaster of July 11, 1911, in the outskirts of Bridgeport, when the Federal express jumped the track in making a crossover at high speed.

The crossover is a connecting track by which a train is swung from one path to another and is very commonly employed where express trains swing on or off local tracks to the line restricted for fast traffic.

Under ordinary circumstances the crossover has no inherent element of danger because the train is supposed to make the shift at a speed of fifteen miles an hour or less. When going at this rate the flanges of the wheels take the new course easily and with but little shock unless the curve of the crossover is too abrupt. In that case, or even if the train be moving more rapidly, the cars lurch and this is felt again when the train enters the further end of the crossover preparatory to following the new track.

In other words, the jar to the passenger depends upon the sharpness of the angle with which the train leaves one track and assumes its line of travel on the other, and this is all the more noticeable when travelling at the higher speeds.

Any large body in motion has a tendency to persist in keeping to that plane and

and should they break the wheels slide off and an accident follows. It is said that the Boston Express was going at the rate of sixty miles an hour. The train probably represented a total weight of fully 500 tons. Five hundred tons travelling at a velocity of sixty miles an hour would deliver a blow if halted abruptly equal to more than 80,000 foot tons. This of course would be lessened according to the angle of impact; but it is not plain that momentum of that magnitude would have but little difficulty in raising the locomotive driving wheels to the height of their flanges and thus causing the train to overrun the crossover and occasion a derailment? Even at thirty miles an hour the train would have a potential force of 15,000 foot tons if rudely turned from its line of travel. Its gyroscopic action would tend to keep it going straight ahead, and only the strength of the wheel flanges would be able to turn it aside safely and into the crossover. If the speed were not slackened this shock would be repeated at the exit end of the switch. The lesson taught by the derailment of the Federal Express has apparently not been heeded, and this latest disaster is the result.

FIGHTING BEGINS IN BALKAN WAR

Continued from First Page.

have taken things into their own hands in this fashion the Bulgarian officials are quick to say that the noted bandit is carrying on a guerrilla war on his own account.

Sandanski kidnapped Miss Stone in 1903 and laughed at the Powers' demand for her return. He has been responsible for the most horrible outrages in Macedonia. Report credits him with having ordered the assassination of more than a thousand and it is said that by his own hand he has put to death more than 300 men and women.

The Cabinet here to-day asked Parliament for \$18,000,000 for war purposes.

King Ferdinand, in his speech delivered at the opening of Parliament, spoke but briefly of the military measures taken by the Government. He relied, he said, upon his representatives and those of the people to do their duty in this crisis. To-day was the anniversary of the proclamation of Bulgaria's independence from Turkey and everywhere the people were assembled in meetings marked by outbursts of patriotism and enthusiastic demands for immediate war. It was expected that some unusual scene would mark the opening of the Parliament, but the Deputies merely approved the declaration of martial law and went through the business incidental to the war measures.

SERVIA'S POSITION IN WAR

King Says Mobilization is Due to Turkey's Attitude.

Special Cable Despatch to THE SUN. BELGRADE, Oct. 5.—The Serbian Skupstina opened to-day amid scenes of great enthusiasm. The King, accompanied by Prince George, was present. The King read an address which had been sent to all the legations save the Turkish and which was received with cheers. King Peter said in part: "The Skupstina has been convoked in extraordinary circumstances because of extraordinary circumstances in our neighborhood. The unbearable state of our fellow countrymen in the Ottoman Empire has always been of great concern to the kingdom of Serbia. Owing to the growing lamentations of our brethren, who are threatened with total extermination, we have had to combat the most powerful unanimous feeling on the part of the nation for the sake of preserving peace in eastern Europe. I have applied with friendly counsels to Constantinople regarding the misery which the Christian nationalities, including ours, are suffering in Turkey, and it is to be regretted that all this was of no avail. Instead of the expected reforms we were surprised a few days ago by the mobilizing of the Turkish army near our borders. To this act, by which our safety was endangered, Serbia had only one reply. By my decree our army was put into a mobile state. "Our position is clear. Our duty is to undertake measures insuring our safety. It is our duty, in conformity with other Christian Balkan States, to do everything in our power to induce proper conditions for a real and permanent peace in the Balkans."

250,000 TURKS MOBILIZING.

Troops to Be Sent at Constantinople and at Janina.

Special Cable Despatch to THE SUN. CONSTANTINOPLE, Oct. 5.—The Turkish army will be mobilized by Monday to the extent of 250,000 men. The troops will be divided into two armies, one with headquarters here and the other with headquarters at Janina, near the Greek frontier. The Serbian Minister here renewed his demand that the Turkish authorities at Uskub give up the munitions intended for Serbia which they are holding. His reception was cold. While he was telling the Porte that if his State does not get her munitions within twenty-four hours diplomatic relations will be severed street mobs were smashing the windows of his legation. The Italian, Bulgarian and Greek legations suffered in the same manner. The temper of the people, which changed so rapidly from a state of docile tranquillity to one of aggressiveness, is daily growing more bellicose.

LITTLE CHANCE FOR PEACE

Unless by Armed Intervention by Powers, Thinks Constantinople.

Special Cable Despatch to THE SUN. CONSTANTINOPLE, Oct. 5.—Diplomatic action looking toward peace is being exerted at the Balkan capitals, but the chances of success are diminishing. There is practically no hope of avoiding war unless at the last moment the Powers agree on armed intervention. The Porte has resolved not to listen to reform proposals from any quarter or entertain any idea of reducing the forces until the Balkan allies demobilize their armies and abandon their present policy. The tension all around is increasing and war can be avoided only by a miracle.

The Sultan, receiving a deputation of Unionist demonstrators, said today: "God will not permit our fatherland to be trampled upon by a few enemies. I am confident that God is with us, in whose keeping we are."

The Ministry of Marine has ordered that no transfers or sales of Greek and Bulgarian steamers can be made to Turkish or other owners. Every train that pulls into Adrianople

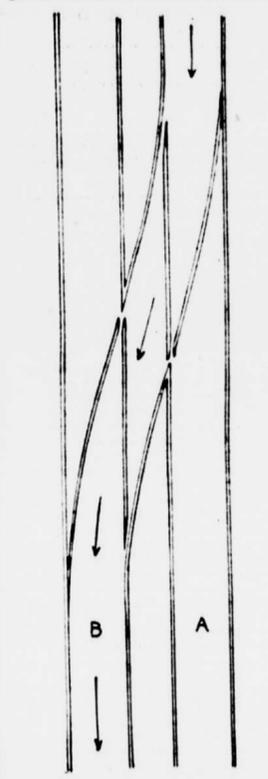
Knabe Warerooms Important Sale of PIANOS A splendid opportunity to purchase slightly used and rebuilt UPRIGHT, GRAND and PLAYER PIANOS (all equal to new) at Sharply Reduced Prices! GRAND PIANOS KNABE; Mignon; Rose; same as new. Was \$750. NOW \$580 KNABE; Mignon; Rose; same as new. Was \$750. NOW \$560 KNABE; Mignon; Rose; same as new. Was \$750. NOW \$540 KNABE; Baby; Rose; same as new. Was \$850. NOW \$535 UPRIGHT PIANOS KNABE; Mahogany; same as new. Was \$600. NOW \$435 KNABE; Mahogany; same as new. Was \$550. NOW \$420 KNABE; Mahogany; same as new. Was \$500. NOW \$390 KNABE; Mahogany; same as new. Was \$500. NOW \$350 KNABE; Mahogany; same as new. Was \$500. NOW \$305 STEINWAY; Rose; same as new. Was \$550. NOW \$325 STEINWAY; Rose; same as new. Was \$550. NOW \$315 PLAYER-PIANOS ARMSTRONG; 88-note; same as new. Was \$500. NOW \$385 KINGSLEY; 88-note; same as new. Was \$600. NOW \$390 Music rolls free and special library privileges Some of the above pianos will be sold on TERMS as low as \$5 a MONTH. Liberal Allowance for Old Pianos Taken in Exchange RYTHMODIK "It's All in the Roll" Knabe Warerooms 5th Ave. and 39th St.

is filled with reserves on their way to join their armies. Men and munitions of war fill the streets of that city. The peasants are swarming in from the surrounding country, where already there have been rumors of fighting, and are seeking safety with their possessions in the city. All the horses in Mustapha Pasha, where it is thought the first real battle will be fought, have been requisitioned. (A special article on the people of the Balkan States, the nature of the country in which fighting is likely to take place, appears on Page 4 of the Foreign Section.) LYNCH FALLS INTO THE HARLEM. Had to Adjust His Eyeglasses Before He Saw a Rope Thrown to Him. Former Water Register Thomas M. Lynch floundered about in the Harlem River yesterday, then carefully adjusted his eyeglasses before he grasped a rope which his rescuer threw to him. He was too nearsighted, Mr. Lynch explained later, to see without his glasses whether or not he was being rescued. Since he was dropped as Water Register of the Bronx in 1910 Mr. Lynch each morning has made it a practice to leave his home at 2838 Aqueduct avenue before breakfast and take a brisk walk over the 26th street bridge. Yesterday he was out as usual with his cane in hand and, as it was rather warm, he had his coat over his arm. There was quite a breeze stirring and an extra hard gust blew his hat from his head and the eyeglasses off his nose. Mr. Lynch dimly saw the hat rolling along straight for the edge of the bridge. There is a railing along the bridge which rises about four feet and the hat went over this. Mr. Lynch was a few steps behind and made a leap to grab the hat. He missed the hat, but he didn't miss the railing. He landed crosswise on it. For a few seconds he hung balanced on the rail. Then his head overweighed his feet and he dropped down into the Harlem River. William Colleton, an employee of the Watson Contracting Company, put out in a rowboat and was soon near Mr. Lynch. Colleton threw a rope to him, but Mr. Lynch paid no attention to it. "Grab the rope!" called Colleton. "Mr. Lynch fished about in the water for a second and then adjusted his glasses. "All right, I see the rope," he replied. He was hauled ashore. There he found Policeman Snyder waiting to arrest him. Snyder had been told that a man had just attempted suicide from the bridge. There was no suicidal intent in his fall, Mr. Lynch explained. He had made a \$10,000 real estate deal a day or so ago and why should he want to die? It was all an accident, he told the policeman.

A. Jaeckel & Co. Importing-Manufacturing Furriers Imported models and adaptations in every fashionable fur. Fur and fur-lined motor apparel in the most attractive designs. 384 Fifth Avenue Between 35th and 36th Sts. Tel. 2044 Greeley

Stern Brothers are now showing at very moderate prices, exceptionally large assortments of distinctively new and authoritative styles in Women's Tailored Suits and Dresses representing the latest and most approved ideas of the leading foreign designers. Particular mention is made of the materials and workmanship, which are of the highest excellence. Also the following Extraordinary Offerings for Monday: Tailored Suits of Cheviots and Men's Wear Serges, strictly tailored models, coats lined with satin and interlined, at \$16.75 of Novelty Striped Suitings, in new and desirable color combinations, velvet trimmed and bound with braid, at 28.50 of Two-toned Diagonal Cheviots, in the latest shades, with velvet hand embroidered collar and cuffs, at 35.00 Dresses of Imported Serge, in navy, black and brown, with white hair line stripe. Robespierre collar and long sleeves, one piece effect, at \$17.75 of Eponge, trimmed with mole coney fur, entirely new model, at 22.50 of Brocaded Meteor and Plain Charmeuse, in low and high neck models, for afternoon and evening wear, 32.50 Women's Coats and Wraps For Street, Automobile and Evening Wear are offered in all the newest and richest of the season's fabrics and trimmings, including Silk Velours, Brocaded Chiffon, Velvets, Velour de Laine, Broadcloth, Novelty Mixtures, Soft Blanket Materials, Silk Velvet and Charmeuse. Many of these models possess the newest effects in fur trimming. Also the new English Rain and Motor Coats, of Zamberrine, Tweed, Whitney Blanket, Shot Velveteen, Fleece-lined Rubberized Cashmere and Hurlingham Covert Cloth, at Very Moderate Prices. Remarkable Values will be Offered Monday, in Coats, of English Novelty Fabrics, also Plain Cheviots and Blanket Materials, some lined throughout with satin, three-quarter and full length, at \$18.50 Coats, of English Velveteen, white and high color linings, new model suitable for Dress and Street Wear at \$29.75 Coats, of Chiffon, Silk Velvet and Charmeuse, in street and evening shades, trimmed with Alaska Sable, at 38.50 A Specially Prepared Sale will be held To-morrow, of Misses' and Small Women's Tailored Suits in sizes 14, 16 and 18 years, every model characteristic of the usual distinctiveness maintained in this department, while the colorings, materials and styles exemplify the most approved and attractive ideas of the season. Tailored Suits of Cheviots, in navy, brown and black, coats lined with heavy satin and interlined, strictly man tailored, Actual Value \$21.00, \$12.75 Tailored Suits of Coarse Diagonals and Broadcloth, trimmed with velvet, coats lined with superior quality satin and interlined, at 21.00 Actual Value \$29.75 Tailored Suits of English Corduroy, Norfolk and Cutaway styles, lined with heavy satin and interlined, in black, navy, taupe and brown, 25.00 Actual Value \$37.50 College Dresses of Navy Blue Serge, with silk tie and buckle, strictly tailored, at \$10.75 Actual Value \$15.50 Street Dresses of Wool Eponge, in desirable shades, three models showing new effects in trimming, Actual Value \$26.75, at 19.50 Dancing Frocks of Chiffon, with shadow lace and floral trimming, in all evening shades and white, 16.50 Actual Value \$25.00 Misses' and Small Women's Coats for Street Wear and Motoring of Blanket Materials, Chinchilla Cloths, Zibelines and English Novelty Weaves, also Mackinaws, are shown in large variety, from \$12.50 to 39.75 Actual Values from \$19.75 to 55.00

Stern Brothers have added Later Importations of Exclusive Novelties to their already large collection of Colored and Black Dress Silks and Velvets including new effects and colorings in Brocaded Velvets and Voiles, Gold and Silver Brocades, Printed Warp Taffeta, Two-toned Velours, Double Width Brocaded Satins and Charmeuse, Failla Francaise, English Corduroys and Velveteens. Also for To-morrow, a Very Exceptional Offering of Imported Satin Charmeuse 42 inches wide, double width, in a large assortment of street and evening shades, including taupe, navy and goblin, also white and black, Value \$3.25 Yard, at \$2.15 Satin Crepe Meteor 40 inches wide double width, charmuse finish, in a complete line of light and dark colors, also white, ivory, cream and black, Value \$2.25 Yard, at 1.55 Crepe de Chine 40 inches wide, double width, in a complete assortment of light and dark colors, also white, ivory, cream and black, Value \$1.75 Yard, at 1.28 Imported Black Dress Velvet All Silk, 43 inches wide, extra fine quality, Value \$6.50 Yard, at \$3.00 English Corduroy and Velveteens 23 inches wide, in brown, navy, taupe and all staple shades, including black, Value \$1.50 Yard, at 98c For Monday and Tuesday, an Extraordinary Sale has been arranged of Women's Street and Evening Gloves in the most desirable styles and lengths, comprising French Kid, two clasp, Paris Point embroidered, overseam sewn, in white, black and street colors, Actual Value \$1.35 Pair at 75c French Kid, one and two clasp, pique sewn, with three rows of embroidery, in black, white and street colors, Actual Value \$1.50 Pair, at \$1.15 Glace Kid and French Lambskin, twelve button length, plain and embroidered, in white, pearl, biscuit and champagne, Regularly sold for \$2.25 and 2.50 Pair, 1.68 Glace Kid and French Lambskin, sixteen button length, in white, champagne, pearl and gray, Regularly sold for \$2.85 Pair, at 1.85 Suede and Glace, twenty and twenty-four button length, in white, pearl, champagne, opera shades and black, Regularly sold for \$3.50 and 4.00 Pair, 2.45 Upholstery and Lace Curtains Unusually complete assortments are being shown of Imported and Domestic Upholstery Fabrics, Portieres, Lace Curtains, Lace Sash Materials, Sunfast Fabrics for Casement Hangings, Cretonnes, Printed Linens and Light Weight Drapery Silks. Attractively moderate prices prevail in this department, to which we invite your inspection and comparison. Also for Monday, Special Values in Filet Lace Stores, Values from \$35.00 to 48.00 Each, at \$24.00, 29.00, 35.00 Lacet Arabe Lace Stores, " " 8.75 to 13.50 " " 5.50, 7.50, 9.50 Marie Antoinette Lace Panels, " " 6.50 to 13.50 " " 3.90, 4.75, 6.75 West Twenty-third and Twenty-second Streets



Railroad crossover like that which caused wreck of Boston Express.

it resists more or less forcibly—depending principally upon its velocity—any effort to deviate it. This being so, it is customary for the engine driver to reduce speed when taking a crossover. When he does not slacken his speed then the risk he runs increases with the square of his rate of travel.

This hazard can be lessened only by making the crossover so long and the angle of divergence from the original course and the assumption of the new one so easy that the shift is effected without violence. It becomes in effect a sliding motion instead of a part way obstruction and sudden change of direction.

You have passed persons in the street and just grazed them; this did not jar you, but you can easily recall the shaking you got when you actually collided. This is virtually what happens when a crossover is taken at an improper speed.

The evil has been fully realized for years, and on some railroads all of the crossovers have been made so long and easy that trains can take them at full speed. In this way the human element is eliminated and the responsibility of



Showing flange on car wheel which prevents train leaving rail.

the man at the throttle accordingly reduced. The trucks or car wheels have a flange or rim which at its thickest part is not wider than the breadth of two of your fingers, and this is the margin of safety that keeps a train upon its course. Further than this the flange has a total height of a trifle over an inch. When the train lurches it is the reaction of the force with which these flanges jam against the inner side of the track,