How the Switchman Keeps

Wheels of Traffic Moving

style as a rule gives little heed as to the details, the modus operandi, of his traveling. It is enough to know that the fare is satisfactory, the time is reasonable and the accommodations such as meet with the taste or requirements of the patrons of the railroad. It rarely enters the head of such a one to inquire into the organization that has made possible the comfortable

and his destination. Now and then the student gives some attention to the organization of the modern service of transportation, but rarely gets beyond certain conclusions statement of the fact, than may be predicated on an array of figures grouped in well-appearing statistical tables and which convey to the boy mind little, if anything, more than would the arrangement of a similar number of bricks. These never get to the life that revolves around the great central idea contained in the problem.

There is a life, intense, strenuous life, involved in the modern systems of intercommunication between people and communities. One of the most interesting of all the complex features of modern existence, with its high manifestation of interdependence, is the transportation problem. Certain incidents of it are brought into the strong glare of the public calcium, such as the administrative officers, who figure in the daily newspaper accounts of the various moves made by the several great dispensers of existence in the financial world; or maybe the heroic engineer, who goes with his machine to destruction and certain death, and now and then the humble brakeman, who flags a train at the risk of his lantern, gets his name in the paper. The conductor is always to the front and the fireman is never heard of unless he is unlucky enough to STOPS THE TRAINS get killed. These are the railroad men whose names get into print and whose pictures adorn the pages of the daily papers. Basis of the Business.

Like everything else, the railroad business has a basis, and its base is noted in a class of workmen of whom very little is heard. "They also serve who only stand and wait." And while these are rather more active in their daily vocation than were would warrant the thought that they merely that walt, it is equally true that they are hardly more picturesque. They perform the presainecessities that make the spectacular hero

man who wants a shipment in or a shipment even a degree of the content it possessed out, you will hardly find his remarks ad- before that husband and father made a dressed to "a well known official," to a misstep in the darkness. trusted conductor or to a skillful engineer.



CORNER OF THE JOBBING DISTRICT.

trips he makes between his starting point rarely if ever heard of. Maybe, when of the several engines that go racing and one makes a misstep and is ground to bits tearing through the yards he keeps the under a long string of cars, his name gets business of the road moving. into the papers in connection with a brief Every Day His Busy Day.

Tragedy of the Yards.

Once a reporter in Omaha was sent down to the yards to get the details of an acct-He found the victim laid out on the platform of the freight depot, awaiting the arrival of the patrol wagon which was to take him to the hospital. Both his legs were crushed below the knee. He had run off

the end of a string of cars in the dark and fell under the wheels. About him were grouped his companions, silently waiting the coming of



wagon. Only one

sound was heard. "Oh. my poor wife and bables!"

That was his onl complaint. He had ne thought of himself. It was his dear ones at home who

in his mind uppermost hour of supreme suffering. was only a switchman, and as far as known, the business of the road never slackened because of the loss of his legs. If you come in contact with a business life in that home was ever restored to



He That reporter has often wondered if the an inevitable collis-

One of the accompanying cuts shows a



GLIMPSE OF THE ELKHORN YARD.

ished desk.

the vans of commerce may not be delayed danger; and these they know full well.

another, who hourly risk life and limb to keep the business of the road moving steadily, who depend for their safety on their quick brains; clear eyes, strong limbs and nimble hands and These men go about through mazes of tracks and wildernesses of boxcars, threading labyrinths of switches. crossings, turnout and cut-offs almost hand in hand with the Grim Destroyer, day by day and night by night. Their life is one of unceasing toil, unrelieved by the glamour that surrounds the railroad man who comes directly in touch with the worl at large. Columns are written of men who run engines and men who run trains, but the men who work in the yards are

in their flight from one center of trade to
The yardmaster is the commander-in-

He will more likely be directing his con- crew coming to work in the morning. Five versation to a switchman. It is the shipper men go with each engine, besides the who knows this. Here is where the great engineer and firemen. These are the forefunctions of railroad life meet. The man and four assistants. They receive shippers' dollars pay for the spectacular trains on their arrival and break them up, display of the traveler's magnificence, and setting the cars on the tracks where they the switchman's labor make possible the are to be unloaded or making them up heroic engineer's opportunity to exhibit his into other trains, to be sent forward to skill and daring, and all combine to add some more distant destination. They take lustre to the glittering "brass collar," who cars from warehouse and factory and elepresides over all from behind a highly pol- vator, and assort them into proper classes and arrange them in order for the It is life in the switch yards with which long trains that are made up in the local this article intends to deal. It will be of yards. That is all. There's no poetry in the men who daily flirt with death that their work, no romance, only "grief" and

chief of these forces. He gets his orders from the trainmaster and master of transportation. Through his office goes all the information as to the location and destination of every car in the yard and of every car that goes through the yard each day. His is one of the really difficult places to fill and it has been said that good yardmasters, like poets, are born, not made. He has his

corps of tried as-

BAMRAINNED

sistants and through them and the crews

One of the other fundamental functions yardmaster's realm, yet does not properly of varying designs and sizes, each indiclassify as switching, is the work of the vidual road having its own as a rule. When number and initial of each car in the train switching crew was to dispose of the cars as it comes rolling into the yard. This according to their destination. With the looks easy, but some day you stand along- bills turned over by the conductor the foreside the track as a freight train is passing, man of the crew hastily made up a switch-

hour, and merely say over the number and initial of each car as it goes by and you'll get a fair notion of what the carchecker's work is. And he must be accurate, for his record is the primary evidence that the car has been received. Each conductor freight hands in his bunch of waybills at the yardmaster's office on arrival and his count and the checker's count must tally. One of these busy men is shown at his work in an accompanying cut.

Another adjunct of the yards of whom the public sees a great deal and who is not a switchman is the grade-crossing flagman, who attends the gates and stops the impetuous driver as he hastens toward ion with the moving

freight trains. There no poetry in his work, either; ity his part is one that simply requires He the switch yards.

BREAKING A COUPLING.

Dallying with Death.

running board and the hand grasps the rail and the running board has been 'flipped." It's easy if you know how to do it, but life insurance or accident com- point, and the operation was resumed. panies won't bother with your risk while you're learning. In the meantime the member of the crew. He was waiting for engineer, apparently unconcerned as to the the string of cars rushing along under the fate of the switchman, has been watching impetus of the "kick" given by the switch him like a hawk. knows if the foot misses the footboard there of cars should stand when it was at rest. will be a fall and unless he takes prompt and his business it was to "catch" them. action there will be a dead man. And so Grasping the rounds on the side of the he has shut off steam and holds his re- first car to reach him he ran nimbly to verse lever on "center" that he may make its top and by a skillful application of the the quickest possible emergency stop. It handbrakes brought the string to a stand-

is a practice that has always tended to keep down the supply of switchmen.

Any old thing that will afford a foothold will do for the switchman though. In one of the cuts you will notice one pulling the lever to unloosen a coupling. His left foot is on the "grease box" and his right on the first step. It is a singular fact that the expert nearly always starts to get on the cars by stepping first on the "grease box." This practice goes almost hand in hand with the deadly "frog" in affording work for the surgeons and the makers of artificial limbs.

Modern Methods Help Some.

Modern methods have done much to ameliorate the life of the switchman. To the patent coupler he is indebted for a reasonable degree of safety to his fingers. Air brakes aid him very materially in escaping some of the drudgery that once fell to his lot and improvements in construction of tracks and switches have done a great deal to mitigate both the danger and the toil. Oldtimers, who can recall the conditions under which men worked a decade ago, know what these changes mean better than can be explained to an outsider. Even with the improvements the switchman has not been admitted to the preferred class by life underwriters.

One feature of the oldtime switchman's life which safety couplers and air brakes have eliminated was the pulling of pins. Until a very few years ago the freight cars were coupled by pins in heavy iron castings of railroad business, which belongs in the called drawbars or drawheads. These were carchecker. All he has to do is to stand a freight train entered a switching yard at with his book and pencil and take down the a division terminal the first duty of the say at the rate of seven or eight miles an ing list and the work went ahead rapidly

> pulled the whole train out clear of the tracks that were to be used and then a series of signals, apparently wild gesticulations. but really fraught with much meaning, began. One man stood by a threethrow or a four throw switch and as the foreman signaled he turned the oncoming cars from track to track. Down the line the

train rumbled with all the speed the pony" engine could summon. Faster and faster sped the wheels, and bumping and jumping over the frogs and switchtongues went the heavily loaded boxcars. All this time a switchman has been standing apparently idle. merely watching the cars. In real

been has counting them. had received signal from him to be on duty all the time and work, the foreman to cut off at such a numlie is usually a switchman who has con- ber. When that number had passed this tributed an arm or a leg to the Minotaur of apparently idle switchman dashed to what would seem to an onlooker certain death. He sprang between the cars, his left hand Among the many pleasant ways of court- on the end of the car in front of him, his ing death in the switchyard is that of right grasping the pin that held the coup-"flipping the running board." In this, the ling, and then he ran, regardless of the switchman has for some one of a myriad fact that he had to skip ties, rails, frogs, of possible reasons found himself in ad- switch-bars and dozens of other obstacles vance of the oncoming engine. He doesn't at a time when to trip was to fall under bother to step to one side. The engineer the wheels and be ground to atoms. He sees him, but makes no effort to stop. On pulled the pin, his left arm swung downcomes the big machine, and it is soon ward, the engineer reversed his engine and fairly on top of the switchman. Just at part of the train sped on down the track. the right moment he lifts his left foot, ex- while the other jerked and rattled and tends his left hand. The foot touches the slacked up and finally stopped under the heaving pull of the engine until at last its motion was reversed, and slowly it rolled back over the switches to the starting

Further down in the yards was a fourth For that engineer engine. He knew about where that string isn't always possible to stop in time, still within a few feet of the place desig-though, and "flipping the running board" nated. By this time the others of the

crew had launched another lot at him, and he must hustle back to catch them.

Never Minds the Weather.

All this was very nice when the weather was good and the tracks were clear and there was plenty of good daylight. Even at night a man learned to trust to his lantern and to his own knowledge of the ground and tracks over which he worked. But the demands of business are inexorable and the dispatch of trains cannot be delayed on account of any weather whose stress can be controlled or defied by man. So the making up of trains must go on, despite snow and sleet and rain. Wet or dry, slippery or safe, the man who pulled the pin must dash between the cars, break the coupling, signal the engineer and spring away from danger, while the man who held them up must "mount the deck" no matter what its condition. It so happened in one of the main yards of an lowa road something like a score of years ago that the unusual heavy snowfall of the winter had accumulated in the vards in to have him. But th the form of ice until the that kind of a me surface of the yards was rolled into the center actually two or three inches was no brake on the



TAKING NUMBER

the engineer and



GREAT GATEWAY ON THE LINE

above the tops of the rails, which he had fallen, Over this highly unsafe foot- his body nicely. ing the switchmen daily pur- his signal, and before sued their dangerous calling reached him, when is with as much nonchalance had to seize the brake as though they were playing or go under it and tag on a school ground. One day a man who was "pulling train momentarily. pins" jumped beneath the cars when the string was moving at the rate of about ten miles an hour. He pulled the pin, flung out his left arm to signal man takes.

was reversed and with the coolness vantage of the luli under the cars, unsa 'switching' as though pened. Such are the

Under the new order necessary for the switte the cars to couple o of the accompanying switchman swinging t he pulls the lever that

Evolution of the In People who have n the evolution of the the "shunter," as around the yards love chine that pushes the realize the great chall place in its developmed In the first engine was usually a ? or decrepit and relegat considered mental wat "pony," the little for snorted and puffed ... about the yards. But it bigger and bigger, an grow, too. So now



AROUND THE UNION PACIFIC FREIGHT HOUSE