

## Among Men who Work with Hand or Brain



## USE HALF WORLD'S LUMBER IN MAKING PACKING BOXES

By Charles Christodoro

Generally a packing box is regarding same may ruin a manufactories.

The pieces cut to length are passed on to the operator called a "ripper." The box may need three pieces to make a this country over night the public would be in an awful plight. You could get no scap, no starch, no smoked meats, no codfish, no coffee, no tea, no eggs, etc., because all these things are transported from the dealer to the retransported from the dealer to the retailer and consumer in boxes.

All kinds of wood are used in the manufacture of boxes-white pine, pop. Printing on the Boxes.

lar, spruce and cottonwood.

the lumberman has found a sure mar- nailing machines is something wonderket for his knotty, shaky, worm-eaten ful.
and dosy lumber with the boxman. Manufacturers of stocks have their

Drain on the Lumber Supply.

ing box industry of the United States and others who make boxes only for consumes annually 50 per cent of the sheet tin. entire lumber cut. This means in the aggregate a tremendous amount of lumber and the box industry of the country into boxes. is, perhaps, one of the largest and most important commercial enterprises.

are boxmakers and boxmakers In every The butter box is a business by itself, city there are local nailing up shops, as is the egg case business. You can the complete nailed up box and the is to be used only for quick shipment same is delivered to the warehouse ready to have the packer fill it with goods. Some of these boxes are nailed together and some are lock-cornered or devetailed at the fourcorners.

The in the country districts of New 1 to the country dist

from native second growth pine. Some a pine box with a resincus odor, Miliof these boxes are so small as to pack a finger ring ready for the mail.

Thousands of young boys and girls the bulk of them are made from vecarn good wages in these factories, the work being clean and not overarduous. It takes the deft fingers of a girl quick. It takes the deft fingers of a girl quick-

t takes the deft fingers of a girl quickly to landle some of these little boxes.
The industry is a large one.
A "shook or box in the "knock down"
simply is the six parts of a box tied
in bundles and so shipped to the consumers; when received in the ware-houses the user nails them up as he

How the Work Is Done.

The surfacing machine can be made ber went into pulp wood paper to plane one or two sides of the board as desired, usually two sides are planed. The operator feeds boards into the ma-

e, which pass under and over ro-knives and come out at the other smoothly planed, as boards seveneighths of an inch thick. If thin boxes are to be made these boards are split by a thin resaw, either in the full length of the board or in the smaller sections.

Makes Clothing From Wool.

Waste Ruins Boxmaker.

He must know his business so well country to establish an industry.

If the boxes are to be printed they The drain on the lumber forests, be- are sent to the printing press and recause of the growth of the country, has ceive the impression from a brass die been so great that lumber has kept ad- on a revolving cylinder. Printing is vancing since 1893 with never a setback. done in one, two, or three colors. If Mills, especially the white pine ones, the user desires a tight, snug box the get pay for every scrap of lumber now- loose pieces are tongued and grooved,

adays, and stop short only at the saw-dust pile. What a difference! Twenty-five years ago a board with a loose knot in it, but sound otherwise, was apt to be sent to the burner and destroyed.

But the boxman can cut out the rot, knots, and shake, and can pay a price, and a high one, for them. For years the lumbarman has found a sure mar-nailing machines is something wonder-

## # special lines. Some prefer to work only on heavy boxes and rig up their plants accordingly, and often devise machinery especially suited to the work. Again others will go in for smaller boxes. There are those who make nothing but boxes for canned corn, tomatoes, etc.

The meat packing houses of the country are tremendous box consumers and use millions of feet of lumber cut

There are boxes and boxes, as there Butter Boxes and Egg Cases.

where the lumber is manufactured into make two kinds of egg cases, one that dovetailed at the fourcorners.

Up in the country districts of New England are many box factories that make only small lock cornered boxes odors, hence the necessity of avoiding sawed in two or three foot lengths and are placed in a veneer cutting lathe. The log is made to revolve against a keen knife and as a result a ribbon of lumber leaves the log until it is cut down to the core. This ribbon of wood always has proved a problem, and as a rule the open air has been relied on. There are veneer-drying machines which are more or less successful.

year. It is said that Harmsworth, the London newspaper publisher, has bought 600,000 acres of standing timber in the north of Canada,

a process that permits of wood pulp There are several hundred cabs to sevbeing spun into the aquivalent of cot- eral hundred locomotives in which a ton cloth and linens, most comfortable \$150 engineer may have a seat with the The board now goes to the crosscut- and satisfactory clothing being made least questioning when his average fitter, the man who cuts the box to length. from it. That man is coming to this ness has been demonstrated."

## WHO'LL BE BOSS TOMORROW? Perhaps the Man That Works Beside You; Pays to Be Friendly By Edward M. Wooley T 18 good policy for workers to treat their fellow workmen in the light or interfellow workmen in the light or interfellow workmen in the light or interfellow workmen in the light of future bosses. Shifts of fortune, and interpolations of the men who are in the put men in unexpected places. Summary satisfactory managements see in these fellows the makeup of picked men in the locomotive cab had the consider firing school text on which graduated. In this obligation with honors, is expected. And he must graduate! In this obligation to firing the third year's book is the primer of picked men in the locomotive deby the feel who which graduated in this possible text on which graduated in this possible text on which graduated in this possible to the interfellow workmen in the light of the same that of the read of the modern locomotive tender, the feel when the makeup of picked men in the locomotive deby the feel who which graduated. In this obligation of the modern locomotive tender, the work of the modern locomotive tender, the showed for the same at the scoop which feeds they awring feel who will be fire a modern locomotive tender, the showed for the same and more difficult to get at the scoop which feeds they awring from the preceded the modern locomotive tender, the showed fire and the makeup of the line when some thing scool is the makeup of picked men in the locomotive deposition to the operation of the may have 50 points to his credit. His first year's book is the prime of firing the third year's book is the prime of firing the third year's book is the prime of firing the third year's book is the prime of firing the hird year's book is the prime of firing the third year's book is the prime of firing the hird year's book is the prime of firing the hird year's book is the prime of firing the hird year's book is the prime of firing the hird year's book is the prime of firing the hird year's book is the pri

terms with as many persons as pos-

John Smith was a conceited sort of John Smith was a conceited sort of hetter beware, for the day may come fellow, who believed in speaking his least expected. It is by no means unmind freely. "A spade's a spade," he common for workmen to pose as introduced to say, "and there isn't any use structors one day and to be taking orders from their pupils the next. trying to make it anything else." He was arrogant and quarrelsome, and there scarcely was a man in the shop who liked him. He was free in expressing his own dislikes, and many a man came in for a tongue lashing.

Smith, it goes without saying, was a fellow who entered the employment of

this place turned out to be a man who had worked under Smith a year or two would stand the abuse no longer, but in previous. He had been the subject of frequent ridicule at Smith's hands, and now Smith was placed in the humiliating position of applying for work to his former inferior and enemy. He did not get the place.

Has Enemies in Every Shop.

employment Smith discovered that a than chance that got the assistant man-dozen men whom he had known as ager his job. If it had not been for journeymen mechanics were holding diplomatic toward the country boy. good jobs in various shops, either as somebody else might have his fine posuperintendents, foremen, or assistant sition today. foremen, and in every instance he had incurred their enmity by his sharp tongue and lack of foresight. There wasn't one of them who would give him

Chicago, where he wasn't known, but it Chicago, where he wasn't known, but it will not be long before he will make son in an English version of "Les Buffresh enemies to add to his already long fons," a boy part created by Sarah fresh enemies to add to his already long fons," a list. Each time he gets out of work he Bernhardt.

often put men in unexpected places, and it pays a man to be on friendly ms with as many persons as postions to an inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are in inferior positions today are the men who are inferior positions today are the men who looks down on an inferior and makes fun of him who are inferior positions today are the men who looks down on an inferior positions today are the men who looks down on an inferior and makes fun of him who looks down on an inferior positions today are the men who looks down on an inferior positions today are the men who looks down on an inferior position are inferior positions

I have in mind the case of a young smith, it goes without saying, was a leftlow who entered the employment of big man physically, or he could not have talked as he did.

One day something went wrong and a dozen men at the factory were laid off, smith among them. In a group they went to another factory to apply for work. As it happened, the foreman at this place turned out to be a man who establishment, who, of all the clerks and workers there, was inclined to be friendly and considerate. Today this tall lanky youth is the

Has Enemies in Every Shop.

manager drowing \$5,000 a year, and the young man who betriended him is assistant manager. It was something more

Run and Unrun.

"When I first went to housekeeping I tried to run everything. I ended with work.

In the course of time Smith secured
a place at a factory in the suburbs of tions now and then."

In the course of time Smith secured
a place at a factory in the suburbs of tions now and then."



## ARISTOCRAT OF THE WORKING WORLD--Railroad Engineers Get Unusual is most likely as good a man as you are. The main thing is that he has been more. The main thing is that he has been more. Pay, Yet Apprentice Firemen Are Hard to Find you can. If you cannot do anything, be

By Jonas Howard

locomotive?

This is a question which at all from his engineer.

Many shiploads of shooks are sent to do the work that once was done by costly and imperfect lumber must be fursion on highly practical as well as scientific lines. The men must be trained and then carefully watched over. Usually lumber comes to the boxman as fine hoards. These are unloaded from the care and carefully inspected and will be worked to the work of the ferman, when the lumber is called for by the with their defects.

When the lumber is called for by the foreman they ardman loads such boards as may be asked for on trucks and same foreman they ardman loads such boards as may be asked for on trucks and same of feet of fir, sugar pine and spruce. The surfacing mas may be asked for on trucks and same of feet of fir, sugar pine and spruce. The surfacing mas fire man can reach them readily.

The surfacing machine can be made the lot of the fire man dark of the fire and some was procounded to him at school. The fire and Northwester rational that was required to fit him at school. The coal tends of the was procounded to him at school.

The clies of and Northwester rational systems, firing still is hard work, was procounded to him at school.

The clies of the fireman, when the academic question which has assent to do the work that once was done by and severe to dot, while increased in the surface of the

Better Pay Than Office Man.

man who can be got for \$150 a minth," try out the man himself. said the superintendent of one of the great systems entering Chicago. "Before this company gives a man a desk Must Pass Yearly Examination. and chair at \$150 a month in the gen-And now a man from Saxony invents eral offices, he's got to show them.

streem scorony is that which would give a fireman more than he can do; that where the firing of a locomotive by one man would threaten the train schedule because of insufficient steam, two firemen for the work is the simplest proposition in economy.

Fireman's Job Once Was Hard.

days every engineer had his own en- But the man who has the ambition to cago-when a man turns loose with it And so it goes. One lad is put right through six or seven years of apprenticeship, learning more or less in haphazard way from his engineer and long after the engineer had gone home toiling in the roundhouse to have the engine in fit condition the next day.

These old engineers will tell you that they had to scoop far less coal than is scooped now for a division run; they are a little disposed to criticise the modern fireman who takes a text book course along with the knowledge that tomes of hard knocks and experience; they are disposed to sympathize with the fireman today over the fireman of yesterday. Yet the examination tests of the firemsn in connection with text book exactions is becoming more and more fixed with the operatic department of the great railroads.

The engineer of 20 years ago or more had his "kicks" in some respects. Time was when the engineer was the arbitor in the engineer was the arbitor in the fireman today over the fireman of yesterday. Yet the examination tests of the firemsn in connection with text book exactions is becoming more and more fixed with the operatic department of the road determines the load for Bill's

to the fireman's deck of the ent of the knowledge which once came to the fireman in long apprenticeship

times appeals to the superintendents "Trace the air through the air brake Learns How to Repair Engine. motive power of the great railroads system," is one of the set requirements. That minute knowledge of his locoof the country, and in a few weeks, of the Northwestern board of examin- motive required by the modern examwhen the movement of the grain crops ers which twice a year in Chicago sum- ination thus frequently proves the enof the country begins to test the capacmens an average of 200 Northwestern gineer. The locomotive which has made
ity of the roads and when locomotive firemen for first, second and third year the average 300 mile run a day is ready
engineers are in a sharply increased deexaminations for the proving of these is chopped to certain sizes, and after engineers are in a sharply increased decying it is cut to the death. The drying it is cut to the death. The drying of these veneers without warping many lines. one of that old high school exaction of run something may get out of order

Better Pay Than Office Man.

"Look at the quality of the office"

"Look at the qualit

A first year fireman gets his "first year" book. At the end of this first year's apprenticeship he will be called

Graduate or Get Fired.

his train for 15 or 10 years, graduating by to a "good enough" job as fireman, to get off the track. If an engineer to it under the old apprenticeship, and and it insisted upon his completing his work when he undertook it. He had to begin as a hostler in the roundhouse, year's book in the section dealing with cleaning engines. They had to be the complete mechanism section in the section dealing with cleaned in those deep the section dealing with cleaning engines. They had to be the complete mechanism section in the section dealing with cleaning engines. cleaning engines. They had to be the complete mechanism, sensibilities make his schedules to save his neck. cleaned in those days, too, for in those and use of the modern airbrake system. They don't want whistles blown in Chi- All Bow to Circumstances.

Study the Air Brake System.

The Philadelphia the Reading road has established an equipped school for demonstrating the modern locomotive and school for demonstrating the modern locomotive and school for whether it he of 50 cmp.

many lines.

Time was under the old rules of the "Trace the circulation of the blood." where the intimate knowledge of the railroads when the work of firing an question is far more vital in significantly apprenticeship made the lot of the fireman, however, the air brake engineer will enable him in a few minutes, and what is more the people who indulge in it know that it is untrue. The truth of the matter is that the engineer will enable him in a few minutes to effect a repair. Without this by day, because machinery is being used to do the work that once was done by man hard, dirty, and exacting. Today, was propounded to him at school. The box business in these days of England in competition with Norway apprenticeship made the lot of the fire- cance than the academic question which knowledge the line might be blocked for

in to Chicago headquarters to pass an examination before an examining board of eight experienced men. The examination requires answers to questions in writing, after which the fireman may have been in its cab before. It may be that if you have come from the prison you will wish yourself back again. There at least you had writing, after which the fireman may have been in its cab before. It Anywhere in any general office of a writing, after which the fireman may may be poorer or better than any other free now, but freedom is a mockery. He must know his business so well country to establish an industry.

that when he has cut up the board he With all these drains on the forests, ally and mentally equipped for local questionings. An which he has driven. He knows only that when he has cut up the board he With all these drains on the forests, has cut out only the absolutely worth- what will be the future box and out of motive engineers of the best grade who, and to his accord words worth that the master mechanic has passed it less parts, and managed so that the last piece cut will leave little waste.

Waste is the great bugbear in a box waste is the great bugbear in a box factory, so much so that carelessness found to go into packing boxes.

What will be the ruture box and out of what will be made? Commerce designeers of the best grade who, first year man to his second year's work and second year's book. But if the man has been at all ambitious he has a fair at salaries of \$75 to \$85 a month, presented to pass the first year man to his second year's work and second year's book. But if the man has been at all ambitious he has a fair system under which to work. On one at salaries of \$75 to \$85 a month, pre-sumably satisfied to grow old at rou-

running only when he was at the throt-tle, there is strong possibility that this congress would have the broken part

Shock of Killing a Man.

"Killing a man" is one of the severest shocks that come to the average engineer. "Why does an engineer run a man

this maximum.

The engineer of 20 years ago or more had his "kicks" in some respects. Time was when the engineer was the arbitor in the making up of his train in the freight service.

"How many cars are you going to take out, Bill?" was one of the stock questions the freight conductor asked of the engineer in the yards, and if Bill said 20 cars or 10 cars, Bill's decision went.

back to the roundhouse where the "host-lers" clean it and mechanics look it over, fitting it up for the next run.

Virtually every engineer loifg in service is a fatalist. He believes in luck. He considers himself merely lucky if he can keep an unbroken schedule unusually long, or gets an unusually good run. An "aristoriate of the laboring world" some one of the stock withink a little before you blame them. Do not forget that the same fate might have been your own. Circumstance is a big word indeed. It laid even Napoleon by the heels.

Be sorry for the men who are broken down, think a little before you blame them. Do not forget that the same fate might have been your own. Circumstance is a big word indeed. It laid even Napoleon by the heels.

Be sorry for the men who are broken down, and if you are so case hardened that you are net sorry for them, at least my to be fair.

Governor Patterson of Tennessee has issued a call for a conference of textile manufacturers and labor representatives in all southern states to be held in Nashville in October to consider the question of child labor and female labor in shops and factories, with a view of adopting uniform laws that will be agreeable and just to the respective parties in interest.

PITY THE DOWN AND OUT MAN By Burt Kennedy

T is a hard thing for a man to be down. It is a hard thing for a man to be broken and lost and to feel that the chances are against his

being able to regain his feet. People there are who say that it is a man's own fault. But these people are either ignorant or without heart.

It may be that you were one who helped to build up into success some gigantle enterprise. It may be that you gave to it the best of your life and your effort, and that you were flung aside when the power was sapped out of you. In these days of vast industrial enterprises such tragedies happen every day. Men are used and cast aside as are

Men are used and cast aside as are cast aside broken tools.

So it is well for people to think twice before they say it is a man's own fault for being down.

Or you may have committed a crime. And you are down because of that. No one will look at you. No one will give you work. The poilce wolves hound you from pillar to post, even though you have suffered punishment for what you have done. And there is no one to help you. And so you are a man who is broken and tost.

But let me tell the people who would cast stones at such a man that the worst crimes against our social order never are punished. The worst criminals live in the midst of ease and splendor and honor. So think twice before you cast stones at the man who is called a criminal. And remember that the possibilities of crime are in all of us. The man who denies that they are in him either is a hypocrite or a fool.

in him either is a hypocrite or a fool.

Criminal May Be Good Man.

If you are not sorry for the man who has been broken because of a crime he has committed, at least be fair. For he unfortunate. Do something for him if is as good a man as you are,

Sometimes It is thought that men who are down are men who are essentially WHY doesn't the able bodied the air brake system, and in classroom ty cars a quarter of a mile long or weak. But this is not always so. Cirvoung man of mechanical bent study and observation the ambitious turn more often than he does fireman may become almost independing the still must hauf his "tonnage" train on schedule time or he must explain satisfactorily why he failed. and force and you may be down. You may be a brilliant man and you may be down. Or a man of marked ability. The reason for your being down may have been because of a certain nobility in your character. You were not a liar, You were not one who would cringe. And because of this you were pushed aside.

were willing to work and who could get no work. This talk of there being work for every man who is willing to work is untrue, and what is more the people

thing sometimes won't go fast enough' at least is worth his salary. The day he used the words he did will turn out to be a significant day for these crim-

When you are broken and down the No Longer Have Pet Locomotives.

Taking the old engineer from his pet engine which he regarded almost as his regarded almost as his regarder almost the state of personal property has spoiled some of the sentiment of the locomotive driver.

Nowadays, when he goes to the round-

It may be that you had a family in sumably satisfied to grow old at routine work. The railro managements
see in these fellows the makeup of
tion he may have 50 points to his credit.

system under which to work. On one that work. The sentiment is lacking the old along you wonder wholly. This is illustrated in the speech feet. As you go sadly along you wonder of one of these old time engineers.

Sometimes I'm hitting it up along the may have 50 points to his credit. become of your son? What happened where. I know what it is by the feel to your daughter? What happened to of it. If I can, instead of using the emergency brake, I throw the thing wide open and let her go. In this way I'm not losing any time. When I get in I report the thing broken. 'Well, where is it?' somebody asks. 'It's down the line somewhere,' I say. 'I didn't have time to go back and pick it up. With an engine that might be his, running only when he was at the throttle, there is strong possibility that this

the, there is strong possibility that this engineer would have the broken part—
the that he might have risked s little time that a quick repair of the break.

To say that every man has a chance is to say what is not true. There are good, strong, capable men who never have had a chance. You may have talent, and ability, and energy, but if you are born in the wrong set these faculties well may become your undoing. A smart, clever lad of the slums may he in danger of becoming a criminal.
This same lad if sent to a public school and to the university would turn

less jests. For the first few weeks gine and in the eyes of some engineers learn and the intelligence which must in a dire emergency somebody is likely on the way to destruction, the other lad these pet machines could not be clean be required of the locomotive engineer to kick about it. I run over crossings gets every imaginable chance. The enous'. Through switchyard firing, is capable of passing always; if he every day that have gates on both sides proverb that says every man has a through the dirty, greasy roundhouse doesn't pass he is dropped as constitu- and a flagman stationed between, yet chance is the biggest lie that ever has work, and finally to some engine on an indifferent run the fireman worked up through six or seven years of apprenticeship, learning more or less in haphazard way from his engineer and long after the engineer had gone home tolling in the roundhouse to have the roundhouse the r delivered at the train sheds on the return, the engineer and firemen run it
back to the roundhouse where the "hostlers" clean it and mechanics look it
over, fitting it up for the next run.

Virtually every engineer latter in serve.

His Poetical Works.