ENGINEERING INVENTIONS.

A boiler flue has been patented by Mr. David Purves, of Ferro Dene, Green Lane, North Dulwich, Surrey County, England. The plate is formed with thickened bands on one side and channels on the opposite side, the thickened bands being rolled into stiffened ribs, making a boiler flue with a band or rib formed integrally therewith.

A car coupling has been patented by Mr. Jonathan H. Davis, of Natchez, Miss. The draw head has a central chamber, with latches pivoted each side the link opening, having engaging curved arms, in connection with a spring-actuated pawl, and other novel features, making a coupler with which cars can be readily coupled upon a curve or with an opposing coupler of unequal height.

A car frame has been patented by Mr. Peter Matthews, of Escanaba, Mich. This invention relates to locomotive tender frames, and provides a con struction designed to effectively resist longitudinal transverse strains of both tension and concussion, while the timbers will be strongly jointed without having to mortim or cut away the main longitudinal timbers of the frame.

A submarine excavator has been patented by Messrs. John and Peter Wagner, of Atchison, Kansas. The buckets are made to be used inside of a cylinder, and to be hung in such manner that they may be reversed upon their hinges to present either a plane edge or a toothed edge to penetrate the material to be excavated, the invention also providing a simple construction and combination of parts for opening and closing the buckets.

AGRICULTURAL INVENTIONS.

A corn planter and check rower has been patented by Mesers. John W. McMahan and Edwin S. Whittemore, of Huntingdale, Mo. This invention covers a novel construction and arrangement of various parts and details designed to afford a machine that will be simple and durable and very effective in operation.

A grain separator has been patented by Mr. William C. Buchanan, of Belleville, Ill. The construction is such that the rake or picker fingers are advanced at different rates of speed through paths of different length, so that the straw and grain acted upon are more fully torn apart, the invention being an improvement on a former patented invention of the same inventor and another.

MISCELLANEOUS INVENTIONS.

A top prop has been patented by Mr. William R. Moore, of Unionville, Pa. This invention provides an improved means for securing the bow iron to the seat iron or top prop stud, to provide an antiprop rattler for carriages and top buggies.

A pocket hand brush has been patented by Mr. Charles B. Schroeder, of Brooklyn, N.Y. It consists of a hollow case provided with a silk hat pad or pads, and two brushes of different styles sliding in opposite ends of the case, making a compact and portable combined clothes and hat brush.

A fly screen has been patented by Mr. Julius Neifing, of Crown Point, Ind. It is for a window or other opening of a room, and is of such construction that the screen serves to exclude flies from entering an apartment, while also providing for the exit of any that may be in the room.

A dumping wagon has been patented by Mr. Thomas Hill, of Jersey City, N. J. This invention relates to carts or wagons for common road use, having shafts to adapt them to horse or cattle draught, and the bodies supported by side pivots or journals for tilting them, the invention covering various novel features of construction and combinations of parts.

A sewerage system for buildings has been patented by Mr. Charles H. Shepherd, of New York City. This invention relates to devices for secur ing the ventilation of the sewerage receiver, and to electro-magnetic appliances for releasing the discharge valve of the sewer pipe, covering various novel features of construction and arrangement of parts.

A composition for mineral wool has been patented by Mr. Richard D. A. Parrott, of Greenwood Iron Works, N. Y. It consists of one-third feldspar and two-thirds lime, combined by fusion and dis charged in a small stream from a furnace, when it is subjected to a jet of steam or compressed air to blow it out into a fibrous mass

A binder has been patented by Mr. Nehemiah Hawkins, of Brooklyn, N. Y. Combined with a pair of apertured covers and a binding cord is a flexible, transversely slotted back and retaining strips formed with projections through which the binding cord passes, with other novel features, making a ready binder for manuscripts, newspapers, sheet music, etc.

A machine for ironing linen fabrics or other materials has been patented by Mr. Henri C. Chasles, of Paris, France. Combined with a chamber which has perforations in its polished ironing side, this side working in silding contact with the fabric to be ironed, is a vacuum-producing device connected with the chamber, whereby vapor is removed and the fabric left completely dry.

A car bell has been patented by Mr. William H. Hudson, of New York City. This invention covers a novel combination and arrangement of parts, whereby the car bell may be rung by pressing upon a foot piece in the platform, the ringing being stopped when the pressure is removed, and the invention is an improvement on a former patented invention of the same inventor.

A circular sawing machine has been patented by Mr. David Arkin, of Manistee, Mich. This invention relates to the construction and arrangement of the carriage of a shingle-jointing machine, and also to the arrangement of a novel system of safety attachments or guards to protect the sawver, the invention covering certain novel constructions and combinations

A tube expander has been patented by Messrs. Jacob Nebergall and Charles E. Schofield, of Waller, Ohio. Combined with a slotted tapering plug are two oppositely arranged jaws having projections for forming a head in the tube inside of the tube sheet, and for turning the flange on the end of the tube outside of the tube sheet, with a cam lever for simul taneously operating the two jaws.

A combination tool has been patented by Mr. William H. Mitchell, of Horse Cave, Ky. It is an implement combining in itself a monkey wrench and pipe cutter and tongs, designed to be adapted for use upon varying sizes of pipe and fittings, and which may be changed from tongs to cutter or cutter to tongs, while not being any more bulky than either of the single implements it takes the place of.

A folding paper box has been patented by Mr. Joseph T. Craw, of Jersey City, N. J. The box body consists of an inner part creased and folded to form the bottom, side, and ends, with a rib about the bottom, and a frame constituting the outer walls and paste flap, the invention being more especially applicable in making shallow paper boxes, of which the blanks may be stored in small space.

A hair curler has been patented by Mr. John T. Stansbury, of Elkhart, Ind. A heating iron or core is combined with an outer curling shell which has means for taking hold of the hair, and is adapted to revolve, a spring being so arranged that the curling shell may be wound up and held under tension, and when the spring is liberated the shell will revolve and automatically curl the hair.

operating a pounder in a suitable tub containing the washing fluid and clothes, and at the same time causing a rapid circulation of air through the contents of the tub, while the driving power may also be utilized to operate the dasher of a churn or do other similar work.

A pistol or mace holder has been patented by Mr. James P. Wintz, of Charleston, West Va. This invention covers an attachment to a belt consisting of a support and clip, one end of the latter being spring-actuated, and curved to fit a police club, pistol, or other article, the arrangement being such that the object secured can be removed laterally as well as in the ordinary manner, or it can be pushed back at the handle end and thus freed from its support.

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gave me all kinds of medicines for suppression, but they only seemed to increase my pain. At last he concluded there was some organic derangement, and gave me surgical treatment, which instead of relieving me, increased my agony, producing inflammation that reached the brain, making me utterly sleepless and delirious for

"One day a friend came to see me who had a part of a Home Treatment of Compound Oxygen at her house, and persuaded me to try it. She sent it to me, and I A washing machine has been patented by Messrs. John P. Caldwell and Joseph C. Wolfe, of Gainesville, Ga. This invention provides for rapidly My mind came back to me, though my doctor had said if I ever got better, or lived, I would never recover my mind. He seemed surprised that I had. He recomm ed surgical treatment, but I had suffered so much by that from him I would not trust it again. This was about a year ago, and I was an invalid until a monthorso since, when I commenced to drag around a little, becoming so tired I could not rest. But since using Compound Oxygen I can rest and walk about, and the cold I had when the Compound Oxygen arrived soon disappeared. I am stronger and better than for years. Have resumed my old Sunday-school class, and played on the organ last

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	Telephone exchange, automatic, T. D. Lockwood Thatch, sectional, R. Griswold	1 372,378	Ι,
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3	Ticket holder, W. H. Love Tie. See Bale tie. Railway tie.		1
)	Tile machine, R. J. Carson		 -
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	Toy pistol, repeating, J. M. Linscott		
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5	Tricycle, T. O'Brien		
ı	Trimmer. See Harness trimmer. Trough. See Feed trough.		1
4	m	. 372,646	١.
1	James	. 872,538	9
7	l	. 372,608	3
1		. 372,643 . 372,567	,
2	Tub. See Bath tub.		
9	ing, A. Saunders	. 372,490	
8	Type writing machine, A. W. Cash372,516	5 , 372,6 02	2
5	Type writing machine, Kidder & Carter		2
8	Skelton	. 372,495	
5	Valve and alarm, safety, T. Shaw	. 372,493	3 į
5	Valve, globe relief, W. H. Wheeler		١
4 3	waste, P. Harvey	372,617	ĩ
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1	Vault, burial, H. Froehlich	. 872,53	2 '
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8	Wash boiler, W. H. Russell	372,43	3 :
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2			
0	Wheel. See Car wheel. Fifth wheel. Metall		
8	Whiffletree, S. Baltzly		
X	Whiffletree hook, H. M. Oliver	372,48	5
4	Wick raiser, F. Rhind	372,63 372,62	9 6
){	Windmill, A. F. Chubbuck	372, 3 0	0
2]	Window frame and such P Hahal	37153	4 !
)	Wire cloth seam, J. J. Sellers	372,33	Þί
,	Wire, hoop for barrels, O. M. Pond Wire, machine for pointing and threading piece		8
í	of, A. H. Hammond		
í	Wire, pliers for cutting and stretching, J. V	v.	
,	Overstreet	F.	l
	Mallet-Guy	372,42	
	Woven fabric, W. Talbot		
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2	DESIGNS. 8 Basque, lady's, H. F. Duke	17 04	,
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	3] Coat, lady's, L. Roys	17,85	5
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9	6 Costume, Miss', E. L. Jenkins	17,85	Ю.
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4	Gas bracket, J. Wright	17.84	18
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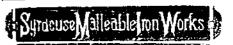
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