- (12) R. J. L.—Coal or gas tar makes a good roof paint. Mix with any cheap earth color, as pulverized slate, chrome yellow, etc. Thin with ben-
- (13) L. E. C. asks: The E. M. F. and the ampere or strength of current from an induction coil % inch core, 4 layers of No. 15 primary. The s condary wire to be 20 layers of No. 30 wire, and would the current heat a small section of wire for cauterizing? A. The current strength and E. M. F. would depend on the battery. The current would be of very slight quantity and high E. M. F., and would heat probably not one thousandth as much wire as would the original current. For cauterizing use a heavy battery current applied directly without an induction coil.
- (14) J. S. McC.—There is little or no difference in the crushing strength of short cylinders, say 2 or 3 diameters, whether solid or hollow. It is when of considerable length, as in supporting columns, that the hollow cylinder of equal weight supports the greatest weight by the bracing it receives from its cylindrical form. If a long solid cylinder is braced so as absolutely to prevent flexure in any part, it will be equal to a hollow cylinder of the same weight and length for resisting a crushing weight or pressure.
- (15) L. I. O.-13 lb. of anthracite is equal to 1 gallon crude petroleum
- (16) H. W. N. asks how to make a good blacking for shoes; also how to make a good washing compound. A. There are several receipts for both purposes, many of which we have already published. For valuable information on these and many similar subjects see "Trade Secrets," which we mail for 60
- (17) W. T. H.—For a black stain on iron mix 8 parts protochloride of antimony, 4 parts sulphuric acid, 2 parts empyreumatic pyroligneous acid, or gallic acid. Apply several coats of the mixture to the polished iron or until black enough, or paint with black japan varnish and bake hard. Then remove the polished surface with pulverized charcoal on a wet
- (18) C. D. M. asks a recipe for removing the oil burned on the finished parts of an engine. A. Use caustic soda or potash. What this fails of removing, take off with a scraper
- (19) W. M. writes: I tin malleable iron, which comes from the bath nice and bright, but although I keep it covered, after a few days it gets red, copper colored in spots, and this color gradually spreads all over the work. Can you tell me the cause! A. The red color is probably derived from oxidation of the iron by the acid left in the pores of the iron. The acid rusts the iron and oozes out through the pores of the tin by the pressure due to increase of bulk by the action of the acid upon the iron; possibly also moisture may be absorbed by the acid through the tin. which is porous. Rinse the work, immediately after tinning, in boiling water, holding 2 oz. sal soda to the gallon in solution.
- (20) J. J. H. asks the proper way to cure animal skins before the hair is dyed. A. Scrape the flesh side clean, and while they are moist (but not wet) rub in liberally a mixture of alum and salt, about one-half of each. Roll up, hair side out, for two to four days, then shake out and give another application, but with less salt. In two to four days more, according to size of skin, shake and beat out clean, and soften the skin by working it well over.
- (21) W. H. E. asks: At what speed can a grindstone run, six feet diameter and ten inches thick, with perfect safety? A. 150 revolutions per
- (22) H. H. W. asks a good method for coating small castings of iron and brass with lead, also what is the technical name for this process? A. The process is called kalamein. Cast iron articles are galvanized in the regular way and then passed through a lead bath. Wrought iron and other metals may be either galvanized or tinned and then leaded.
- (23) H. E. H. asks for a method by which he can find the point in an irregular triangle, from which as a center to inscribe a circle whose circumference will be tangent to each side of the triangle. A. Bisect any two angles of the triangle, prolong the bisecting lines until they intersect, and use their intersection as the center.
- (24) R. W.—The tensile strength of wrought iron slightly increases with temperature from 60° (1) to 212° (1.2), and to 435° (1.4) of its initial tensile strength. This is no excuse for testing boilers with steam at a risk in case of rupture. We only repeat that there is no difference in a given pressure by whatever means it is procured.
- (25) J. P. H. asks which would be the most efficient way to remove blood and grease stains from birds to be set up or stuffed. Also if it would be better to remove it before or after stuffing? A Wash with pure water and keep agitating the feathers with the fingers until they are dry. This will remove blood. Similar treatment with benzine will remove grease. Do this before stuffing. It will undoubtedly injure the specimen to some extent.

## NEW BOOKS AND PUBLICATIONS.

## TO INVENTORS.

## INDEX OF INVENTIONS

## AND EACH BEARING THAT DATE.

	AND EMOIL BEAUTING THAT DA		E
	[See note at end of list about copies of these pate	ents,]	E
	Adding masking I C Sommons	201 000	E
	Adding machine, J. C. Seymour		E
ĺ	Animal trap, W. H. Castle	391,118	_
	Automatic switch, R. E. Nolley		F
	Axle, vehicle, W. H. Wright		F
	Axles, toughening, J. Coffin	391,120	_
	Band fastening, J. M. Scott	391,340	F
ı	Batteries, separator for electric, H. W. Butler Beam straps, implement for forming, McDougall	391,229	F
	& Potter		F
	Bed bottom attachment, O. S. Foster Bed, spring, O. S. & W. S. Foster		F
	Beehive, B. F. Kendall		F
	Bell, door, W. B. Atkinson	391,108	ŀ
	Belt clasp, L. Sanders  Belt fastening, J. M. Whittemore		F
i	Belt, galvanic, E. D. Granger		F
l	Bench, See Wash bench.		F
l	Beverage shaking and mixing machine, B. F. K. Jennings	391,150	F
l	Bicycle lock, Gongware & Hanley	391,241	F
١	Blind slat tenoning machine, W. H. Doane Boat building, former for, M. Y. Ransom	391,231 391,279	F
١	Boiler. See Steam boiler.		F
ĺ	Boiler cleaning compound, J. A. Wright et al		ŀ
	Bolster spring, W. Cole	591,023 	H
į	Bookbinding apparatus, G. H. Ogden	391,266	E
	Book, letter copying, S. Chadwick	391,299	H
	Boot and shoe heels, machine for moulding and compressing, Cummings & Coombs	391,124	6
1	Box. See Letter box.		e
:	Box, C. H. Hardin		ı G
	Bracket attachment, shade, G. S. Pearson		6
	Brake. See Car brake. Wagon brake,		G
	Breast drill, J. Sangster		6
!	Brush and towel operating mechanism, bath, J.		G
	Mayer		6
	Brush holder, H. H. Sawtelle  Brush making, E. I. Miller		(
l	Buckle, W. F. Osborne	391,332	
	Buggy boot, P. M. Barnes	391,009	0
	Burner. See Gas burner. Straw burner. Button, S. Cottle	391.280	0
	Button, separable, E. Pringle	391,076	G
	Button, separable, M. D. Shipman		6
	Cable coupling and grip device, J. H. Bowden Camera. See Photographic camera.	031,226	0
	Can. See Milk can. Oil can.		G
	Cane mill, Robertson & Hudson		ı,
	Care, walking, G. H, Coursen		I
	Car brake, J. Walsh	391,217	I
	Car coupling, W. Gibboney, Jr		I
	Car coupling, E. Waldron	391,098	
	Car heater, J. G. Philips	391.073	I
	Car platform, metallic, B. W. F. La Mothe Car, steam street, W. E. Wilcox	391,164 391,350	I
1	Car ventilator, H. Lindsev		I
:	Cars, changeable signal light for railway, W. S.		I
	Adams		I
	Cars, smoke conductor and ventilator for, A. S.		1
	Miles	391,263	I
,	Card fillet setting machines, head of, R. Sellers Cards, etc., device for automatically exhibiting		I
	business, G. D. Keach	391.160	1
	Carpet sweeper, W. J. Drew		
	Carriage curtain light, F. A. Neider Carriage top prop, Shibley & Payne	391,090	1
	Carrier slats, attachment for endless, C. C.		1
	Smalley		1
	Cart, road, C. C. Hayes		I
	Cart, road, F. J. Melvin		
	Case. See Medicine case.  Cash carriers, retarding tube for, F. N. Jones	391 051	I
	Charcoal, apparatus for restoring the spent pro-		i
	perties of, C. L. Porter	391,335	1
	Check loop, overdraw, L. D. Jones		]
	Chlorine, making, J. A. Just	391,159	1
	Churn, J. M. Hunt		1
	Clasp. See Belt clasp. Shoe lace clasp. Cleaner. See Flue cleaner.		1
	Clock, A. Phelps		1
	Clod crusher and roller, combined, O. C. Look	391,375	J
	Cloth cutting machine, A. Warth		إ
	Clothes drier, J. S. Valentine	891.347	J
	Coal, chain conveyer for handling, A. J. B.		١
	Coal drill, W. C. Johnson	091,245	
	Collar stuffing machine, W. Foglesong	391,134	1
j	Concentrator, Starr & Kinley Confection pan. steam. W. L. Jancey	891,341	1
1	LANGE CLION DER RESSM. W. L. JSNCSV	331 2CO	, 1

			The state of the s
stratum of water. It does not sink in masses, as claimed by some.	about decoys and blinds, retrievers and their charac- teristics, and on the selection and use of a gun. The	Corn husking machine, W. M. McDougall	Knob shanks, manufacture of, Cooley & Burgess. 391,024 Ladder, portable extension, S. Piche 391,188
(12) R. J. L.—Coal or gas tar makes a	book cannot fail to be extremely valuable to every	Cotton picker's sack, T. Cliett	Lantern, G. A. Kennedy
good roof paint. Mix with any cheap earth color, as	amateur, while its pages are full of entertainment to such as have been most successful in this class of	Drill coupling. Pipe coupling. Whiffletree	Leatherskiving machine, S. H. Randall 391,190
pulverized slate, chrome yellow, etc. Thin with ben- zine.	sport.	coupling. Yoke coupling.  Coverer and land roller, F. C. Garrison	Letter box, W. M. Black
(13) L. E. C. asks: The E. M. F. and	<del></del>	Cradle, child's, T. J. Berens       391,292         Cuff fastener, C. L. Moore       391,264	Level, spirit, A. D. Goodell
the ampere or strength of current from an induction	TO INVENTORS.	Cultivation, spacing device for garden, D. V. C.	Lifting jack, L. E. & P. Murphy 391,382
coil % inch core, 4 layers of No. 15 primary. The secondary wire to be 20 layers of No. 30 wire, and would	An experience of forty years, and the preparation of more than one hundred thousand applications for pa-	Rapp	Light. See Carriage curtain light.  Lines or reins, attachment for driving, C, J. King 331,32
the current heat a small section of wire for cauterizing?	tents at home and abroad, enable us to understand the laws and practice on both continents, and to possess un-	Curtain fixture, G. R. G. Jones	Lock. See Bicycle lock. Nut lock. Safe lock. Sash lock.
A. The current strength and E. M. F. would depend on the battery. The current would be of very slight	equaled facilities for procuring patents everywhere. A	Cutter. See Meat cutter. Paper cutter.	Locomotive draw bar, J. Elder 391.233
quantity and high E. M. F., and would heat probably	synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons	Dental engine hand piece, A. A. Wilcox         391,349           Dental tool, W. C. Deane         391,302	Looms, mechanism for operating shuttle boxes in, R. B. Goodyear
not one thousandth as much wire as would the original current. For cauterizing use a heavy battery current	contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices.	Denture, artificial, W. H. Miller       391,062         Desk signal, J. C. Parker       391,185	Measure, automatic grain, T. D. Peasley
applied directly without an induction coil.	which are low, in accordance with the times and our ex-	Digger. See Potato digger.	compasses for, T. P. Owen 391,067
(14) J. S. McC.—There is little or no	tensive facilities for conducting the business. Address MUNN & CO., office Scientific American, 361 Broad-	Dinner pot. J. P. McKee.       391,174         Door hanger, W. Kopisch.       391,053	Meat cutter, R. V. Jones         391,322           Medicine case, S. K. Lake         391,055
difference in the crushing strength of short cylinders, say 2 or 3 diameters, whether solid or hollow. It is	way, New York.	Draught device for wagons, R. I. Skiles 391,091 Drier. See Clothes drier.	Metal crimping tool, S. Y. Buckman
when of considerable length, as in supporting columns,		Drill. See Breast drill. Coal drill. Grain drill.  Drill coupling, P. A. Gordon	for transferring, Evans & Harrison 391,361
that the hollow cylinder of equal weight supports the greatest weight by the bracing it receives from its	INDEX OF INVENTIONS	Drilling machines, drift pin for, W. Evans 391,038	Milk can, D. H. Fliehr 391,039
cylindrical form. If a long solid cylinder is braced so	Don -http://www.Dodona.co.ch.	Dyeing aniline black, J. Grunhut	Mill. See Cane mill.  Millstone pick, Z. J. Drake
as absolutely to prevent flexure in any part, it will be equal to a hollow cylinder of the same weight and	For which Letters Patent of the United States were Granted	Eaves trough hanger, Weida & Batdorff 391,286	Mirrors, lighting attachment for, G. H. Coursen. 391,122 Miter boxes, clamping attachment for, I. B.
length for resisting a crushing weight or pressure.		Electric generator, dynamo, G. & A. Pfannkuche. 391,270 Electric machine, dynamo, Parrish & Cole 391,070	Sloat
(15) L. I. O.—13 lb. of anthracite is	October 16, 1888,	Electric machine, hand magneto, J. B. Blair 391,224 Electric meter, H. Bentz	Moccasin, J. L. Coombs
equal to 1 gallon crude petroleum.	, ,	Electric motors, regulation of, L. S. Harris 391,319 Electric motors, safety attachment for, C. F.	Mower, Pitkin & Steward
(16) H. W. N. asks how to make a good blacking for shoes; also how to make a good washing	AND EACH BEARING THAT DATE.	Brush	Mower, lawn, T. Rogers
compound. A. There are several receipts for both	[See note at and of list about sonion of these notants]	Electrical switch, J. S. Adams.       391,351         Elevator boot, F. H. C. Mey       391,061	Nail, A. Bellanger
purposes, many of which we have already published. For valuable information on these and many similar	[See note at end of list about copies of these patents,]	Elevator indicator, R. F. Cartwright	Numbering head, F. W. Wicht
subjects see "Trade Secrets," which we mail for 60	Adding machine, J. C. Seymour	Engine. See Gas or caloric engine.	Nut lock, A. C. Vaughan 391.284
cents.	Alcohol, purifying, T. G. Bowick	Excavator, submarine, C. A. Morris	Oil can, J. B. Herboldshimer
(17) W. T. H.—For a black stain on iron mix 8 parts protochloride of antimony, 4 parts sul-	Automatic switch, R. E. Nolley	Fan, automatic, W. Haslam	
phuric acid, 2 parts empyreumatic pyroligneous acid,	Axle, vehicle, W. H. Wright	Faucets, Tregister Tattachment for, Werrek &	Ores, apparatus for chloridizing, H. H. Eames 391 360
or gallic acid. Apply several coats of the mixture to the polished iron or until black enough, or paint with	Axles, toughening, J. Coffin	Smith         391,288           Feed trough, R. Aitcheson         391,220	Ores, device for refining metallic, H. H. Eames 391,034 Pad. See Horseshoe pad.
black japan varnish and bake hard. Then remove the polished surface with pulverized charcoal on a wet	Bar. See Grate bar. Locomotive draw bar. Batteries, separator for electric, H. W. Butler 391,229	Feed water heater, W. H. Rushforth	Padlock, permutation, T. P. Owen
polished surface with pulverized charcoal on a wet cloth.	Beam straps, implement for forming, McDougall & Potter	Fence, W. A. Bryant	Paper cutter, L. Ehrlich
(18) C. D. M. asks a recipe for removing	Bed bottom attachment, O. S. Foster 391,138	Fence, W. H. Dungan       391,033         Fence, J. M. Fellows       391,132	Paper feeder, A. Sedgwick et al
the oil burned on the finished parts of an engine. A. Use caustic soda or potash. What this fails of remov-	Bed, spring, O. S. & W. S. Foster       391,137         Beehive, B. F. Kendall       391,162	Fence post, P. Geary       391,363         Fence post, Saxon & James       391,198	Paper, fly, F. J. Bosse
ing, take off with a scraper.	Bell, door, W. B. Atkinson       391,108         Belt clasp, L. Sanders       391,197	Fence post, J. Wren	
(19) W. M. writes: I tin malleable iron,	Belt fastening, J. M. Whittemore	Filter, J. J. McTighe 391,328	ratus for burning, J. W. Budd
which comes from the bath nice and bright, but al- though I keep it covered, after a few days it gets red.	Belt, galvanic, E. D. Granger	Filter, water, J. B. Ziegler	
copper colored in spots, and this color gradually	Beverage shaking and mixing machine, B. F. K. Jennings391,150	Firearm, breech-loading, Johnson & Fyrberg 391,155 Firearm, revolving, Johnson & Fyrberg 391,153	Pile driving attachment, T. O'Connell 391,267 Pillow, J. R. Cluxton 391,300
spreads all over the work. Can you tell me the cause?  A. The red color is probably derived from oxidation of	Bicycle lock, Gongware & Hanley 391,241	Fire escape, A. De Waele 391,358	Pin. See Safety pin.
the iron by the acid left in the pores of the iron. The	Blind slat tenoning machine, W. H. Doane 391,231 Boat building, former for, M. Y. Ransom 391,272	Fireproofing compound, B. F. McIntyre391,261, 391,327 Flour bolt, C. N. Smith	Pipe coupling, detachable, G. H. Griffin
acid rusts the iron and oozes out through the pores of the tin by the pressure due to increase of bulk by	Boiler. See Steam boiler.  Boiler cleaning compound, J. A. Wright et al 391,105	Flue cleaner, F. L. McGahan	
the action of the acid upon the iron; possibly also	Bolster spring, W. Cole	Fuel, artificial, G. S. Montgomery 391,179	Planter, W. I. Knox.       391,374         Planter, check row corn, D. H. Dillon       391,126
moisture may be absorbed by the acid through the tin, which is porous. Rinse the work, immediately after	Bolt. See Flour bolt.  Bookbinding apparatus, G. H. Ogden 391,266		Planter cotton, W. P. Bledsoe
tinning, in boiling water, holding 2 oz. sal soda to the gallon in solution.	Book, letter copying, S. Chadwick	Furnace fuel leeder, Cochran & Lindsay	Plow, H. Cann
(20) J. J. H. asks the proper way to		Game apparatus, J. W. V. Rawlins	Plow wheel, F. A. Head
cure animal skins before the hair is dyed. A. Scrape	Box, C. H. Hardin	M. Rose	tachment for, S. B. Smith 391,204
the flesh side clean, and while they are moist (but not wet) rub in liberally a mixture of alum and salt, about	Bracket attachment, shade, G. S. Pearson 391,187	Gas burner for stoves, C. M. Gummer 391,365	Post. See Fence post.
one-half of each. Roll up, hair side out, for two to	Brake. See Car brake. Wagon brake, Breast drill, J. Sangster	Gas, manufacturing water, J. M. Rose	
four days, then shake out and give another application, but with less salt. In two to four days more, according	Brick kiln, perpetual, F. B. Graves	Gas tips, machine for slotting metallic, W. Carey. 391,854 Gate. See End gate. Railway gate.	Potato digger, J. P. McLaren 391,059 Potato digger, C. Rieohen 391,078
to size of skin, shake and beat out clean, and soften	Mayer 391,325	Gate, Powell & De Crow	Potato digger, W. Schrader 391,086
the skin by working it well over.  (21) W. H. E. asks: At what speed can	Brush holder, H. H. Sawtelle	Governors, spring attachment for, C. M. Giddings 391,239 Grain adjusting device for self-binders, J. F.	Printing and decorating china, W. H. Turner 391,346
a grindstone run, six feet diameter and ten inches	Buckle, W. F. Osborne	Steward         391,342           Grain binder, J. Keller         391,371	Printing gold, silver, or platinum decorations on ceramic wire, Ehrlich & Storck
thick, with perfect safety? A. 150 revolutions per	Burner. See Gas burner. Straw burner. Button, S. Cottle	Grain drill, H. B. Cease	Printing, lithographic, J. W. Osborne 391,065
minute. (22) H. H. W. asks a good method for	Button, separable, E. Pringle 391,076	Grain header, S. J. Myrick 391,383	Printing with gold. silver, or platinum, producing
coating small castings of iron and brass with lead, also	Button, separable. M. D. Shipman	Grate, Z. Sargent et al	a bright, Ehrlich & Storck
what is the technical name for this process? A. The process is called kalamein. Cast iron articles are	Camera. See Photographic camera. Can. See Milk can. Oil can.		Propeller for boats, vibrating, D. B. Rowland 391,196 Pulley, belt, J. G. Moomy 391,190
galvanized in the regular way and then passed through	Cane mill, Robertson & Hudson 391,337	pressure in a, G, E. Spiller	Pump, C. P. Rinker 391,079
a lead bath. Wrought iron and other metals may be either galvanized or tinned and then leaded.	Cane, walking, G. H, Coursen	Hair curler, J. Dwyer	
(23) H. E. H. asks for a method by	Car brake, J. Walsh	Handle. See Box handle. Handle, F. Haberman	Railway, R. P. Faddis
which he can find the point in an irregular triangle, from	Car coupling, D. Schofield	Hanger. See Door hanger. Eaves trough hanger.	Railway signal automatic, Ross & Darter 391,388
which as a center to inscribe a circle whose circum- ference will be tangent to each side of the triangle. A.	Car coupling, E. Waldron         391,098           Car heater, J. G. Philips         391,073	Harness loop, C. W. Rogers	Railway switch and switch mechanism, A. K. Mansfield
Bisect any two angles of the triangle, prolong the	Car platform, metallic, B. W. F. La Mothe	Harrow, J. A. Moore	Railway system, electric, D. G. Weems
bisecting lines until they intersect, and use their inter- section as the center.	Car ventilator, H. Lindsey	Harrow, disk, T. Maxon	pipes of, D. H. Sherman 391,089
(24) R. W.—The tensile strength of	Adams	Harvesters, grain adjusting mechanism for, G. H.	Railways, etc., lifting machine for, F. Golightly
wrought iron slightly increases with temperature from 60° (1) to 212° (1.2), and to 435° (1.4) of its initial tensile	Cars, construction of railway, F. G. Caldwell 391,296 Cars, smoke conductor and ventilator for, A. S.	& J. F. Steward	et al
strength. This is no excuse for testing boilers with	Miles	Hat die, F. S. Hilton	vated, O. B. Bocande
steam at a risk in case of rupture. We only repeat that there is no difference in a given pressure by whatever	Cards, etc., device for automatically exhibiting	Head rest, D. L. Snediker et al	Reapers and mowers, cutting apparatus for, A.
means it is procured.	Carpet sweeper, W. J. Drew	Heater. See Car heater. Feed water heater. Steam and hot air heater.	Gumz
(25) J. P. H. asks which would be the most efficient way to remove blood and grease stains	Carriage curtain light, F. A. Neider	Heating device, submerged, T. Cascaden	Revolver, Johnson & Fyrberg
from birds to be set up or stuffed. Also if it would	Carrier slats, attachment for endless, C. C. Smallev	Heel trimming machine, F. N. Ethridge	
be better to remove it before or after stuffing? A. Wash with pure water and keep agitating the feathers	Cart, road, C. C. Hayes	Holder. See Brush holder. Roll holder. Sash	Roll holder for sensitive films, W. H. Lewis 391,167
with the fingers until they are dry. This will remove	Cart, road, r. J. Meivili		Roofing, C. M. Garrison
blood. Similar treatment with benzine will remove grease. Do this before stuffing. It will undoubtedly in-			Ruling machine, A. Sedgwick
jure the specimen to some extent.	Charcoal, apparatus for restoring the spent properties of, C. L. Porter. 391,335		Safe lock, W. E. Lee
NEW BOOKS AND PUBLICATIONS,	Check loop, overdraw, L. D. Jones	Hose, machine for washing fire, G. Villeneuve 391,393	Salol, manufacturing, P. W. Hofmann 391,248
WILD FOWL SHOOTING. By William B.	Chlorine, apparatus for making, J. A. Just	Ice harvesting machine, W. L. Smith 391,205	Sash lock, W. Chisholm
Leffingwell. Chicago: Rand, McNally			
& Co.  This is a book made up principally of the personal	Cleaner. See Flue cleaner.	Indicator for doors, J. D. Vail	Sawmill carriage, J. A. Hauser
experiences of the author, and they have been suffi-	Clod crusher and roller, combined, O. C. Look 391,375	Jack. See Lifting jack.	Perkins
ciently extensive to make it a genuine pleasure to fol- low him, in its pages, through many delightful excur-	Clothes drier, E. J. Ritterhouse 391,191	Joint coupling, metallic flexible, T. W. Moran 391,329	Mealey
sions often attended with much hard work and exposure,	Clothes drier, J. S. Valentine		Sawing machine, cut-off, Suprenant & Ferguson. 391,344 Scaffold holder, W. J. Blundell
but generally resulting in the "bagging" of a good quantity of game. The resorts, habits, and flights of	Berger		Scaffolding, O. G. Nosker
wild fowl are described, with the most successful method of hunting them, and much practical informa-	Collar stuffing machine, W. Foglesong	Knitting machine, J. Schmitt 391,084	Scow, dumping, J. S. Rogers
tion is plainly set forth touching the right kind of boats		Knitting machine, F. Wilcomb	Screw press, C. W. Metcalfe
to use and how to build and take care of them,	Connecting rod, R. Humble	Knitting machine, straight, A. Beyer 391,011	Screw, wood, J. F. Thayer