providing means of adjustment and means of regulating the air supply through the sleeve to the nozzle.

INLAYING METAL GOODS.—Henri F. L. Aument, Lenden, England. This inventer has de vised a mode of inlaying with tortoiseshell or celluloid. watch cases, jewelry, ernaments, etc., of gold and silver and other metals without the use of cement, producing a transparent, enamel-like effect. The pieces of material to be inlaid, when softened by heat, are squeezed into interlocking engagement with the grooved or beveled edges of through apertures in the metal, the pressure being maintained until the work is cold, when any superficial excess of the inlaid material is re

MANHOLE FOR SEWERS.—George Wright, Winnipeg, Canada. To ventilate the manholes of sewers and purify their obnoxious or deleterious gases, the manhele is, according to this invention, fitted internally with a cast iron cylinder provided with a ventilating cover, near which is held a mud pan, while a deoderizing basket is remevably supported at the lower end of the cylinder. This basket is charged or re charged with deederizing material, preferably breken charceal, er lime, tar, etc., as eften as may be desired, er when disease is raging in a town a grate may be sub stituted for the basket and ordinary charcoal burned

UMBRELLA.-William R. Tebow, Tiskilwa, Ill. This inventor has devised a strong and durable runner and improved the construction of the crownpiece, connecting the ribs and braces with the crownpiece and runner by ball joints, to cause the parts to work easily. The crownprece and runner are small, and without projecting portions to injure the fingers or tear the cloth, and their construction is such that any brace or rib may be easily taken out and repaired. The umbrella joint combines strength, lightness and durability with handsome appearance and capacity for a large number of braces without making the joint large or the braces weak.

POCKET KNIFE. -- John P. Nordlow Wercester, Mass. In the knife devised by this inventer the blade is so held in the handle that the blade may be quickly and easily opened and rigidly held in open position, no matter how long the blade may be. The blade may be opened from its heel or tang, and it may also be locked in upright position, or at right angles to the handle, so that it will not move backward or forward.

POCKET KNIFE.—Carl C. Moritz and Stephen D. Greenwood, Salt Lake City, Utah. This knife costs but little more than an ordinary one, but it is so constructed that it may be easily separated into its parts, and the blades, partition plates, and springs readily removed and new parts substituted. The parts are so arranged that they may be firmly put together and the knife externally presents the usual appearance.

HAIR CURLER. — Thomas C. Moore, Great Falls, Montana. This implement has a tapered tubular body at whose larger end is a radial flange on which is loosely fitted a ring or collar to which is pivoted a clamp arm. When a lock of hair is wound close to the head or face, and, on the last turn, the clamp does not come into due position to enable it to hold the lock tightly curled, it may be adjusted or revolved to enable it to do so.

HOOK AND EYE. - Joseph F. Schoeppl. Pittsburg, Pa. This mvention provides a connecting device formed of a body portion with hook members extended from one side, wings projecting from the ends and an extension from the body between the wings. It is inexpensive, being stamped out of resilient sheet metal, is readily attached to the garment without stitching, does not flap or bend outward from the fabric, and when once secured in the garment cannot be pulled out in ordinary use.

HEAD REST FOR BEDSTEADS.—George G. J. Millar, Grevepert, Ohie. This is an imprevement npon a formerly patented invention of the same inventor, providing for invalids a head rest which is readily adjustable to any desired position without throwing the body out of a straight line, and without much exertion of the attendant. The invention consists of a covered U-shape frame having a pivoted leg or brace, fastened in place by a cord, the covering material being permanently secured to one side of the frame, and laced to the other side, whereby it may be always drawn tight.

BEER DRAWING AND SAVING APPAR-ATUS.—William R. Dales, New York City. This apparatus comprises a vacuum tank and a beer discharge pipe connected by a two-way faucet to which a hood is applied, with means for controlling the discharge and inlet pipes. The improvement enables the froth to be sucked from the top of a glass of beer as it is drawn, the freth being delivered into a separate receptacle frem which, after it settles, it may be sold by measure.

Horseshoe. - Erasmus Richardson, Esben, Kansas. This is a compound or double shee, •ne section being a light racing shoe permanently nailed •n, •ver which fits a recessed heavier section, temporarily nailed in place, and to be used only when training The two sections are wholly disconnected from each other when off, and when the outer one is removed for racing the horse will have a practically new, light. sharp

CASKET HANDLE.—Lyman E. Wood ard, Owesse, Mich. The wall of the casket, accord ing to this invention, has a recessed and perforated ear, in which is a washer, the ear and washer being seared in place by a screw, and forming a base for attachable handles. The imprevement, in use, afferds strong, rich base piece for handles, either of the drop style or rigidly prejected from the coffin.

DESIGN FOR A ROPE CLAMP FRAME. -Per O. Olssen, Marshall, Minn. The edge centeur of this frame presents a series $\bullet f$ alternate $c \bullet nvexities$ and concavities, the plate being essentially a plane surface, disposed on which is a ridge-like figure.

send name of the patentee, title of invention, and date all newsdealers. of this paper.

NEW BOOKS AND PUBLICATIONS,

AND BOOK OF PRACTICAL MECHANICS. For use in the shop and draughting room, containing tables, rules, formulas and solutions of practical problems by simple and quick methods. Logarithm, sine, cosine and tangent tables, areas and circumferences decimal equivalents of an inch, a foot, and a pound, bevel and spur gears, worm and worm gears, United States standard bolts and nuts, tapping drills, lathe thread cutting, cams, etc. By Charles H. Saunders. Hartford: Student Publishing Company. 1895. Pp. 116. Price \$1.

The Pope Manufacturing Company. manufacturers of the Columbia bicycles, are now sending out their desk pad calendars for 1895, affording space for memoranda for each day of the year. This is the tenth annual issue of this style of calendar by the Pope Manufacturing Company, and their very extensive experience has afforded them a vast deal of bicycle literature, points illustrating which bristle upon every page.

The Overman Wheel Company, manufacturers of the Victor bicycles, have issued a neat desk calendar for 1895, consisting of a memorandum pad with blanks on which to jet down brief reminders of things to be remembered, etc., for every day in the year. It goes without the saying that it is embellished with numerous apothegms as to the excellences of the Victor wheel and the advantages of bicycle riding.

The Link Belt Manufacturing Company, of Chicago, send out a very ornamental calendar for 1895, in which a leaf of a small pad is given to each week, the pad being attached to the face of a card in colors. This company furnish shafting, pulleys, gearing, etc., and laber-saving machinery for handling any material in bulk or package.

SCIENTIFIC AMERICAN

BUILDING EDITION

DECEMBER, 1894.-(No. 110.)

TABLE OF CONTENTS.

- 1. Plate in colors, showing a residence at Bronxwood Park, N. Y. Two perspective elevations and floor plans. Cost complete \$3,500. A picturesque de sign. Mr. Chas. N. Hear, architect, New Yerk City
- 2. Elegant plate in colors, showing a residence at Ches ter Hill, Mt. Vernen, N. Y. Two perspective elevations and floor plans. An attractive design in the Colonial style. Messrs. Rossiter & Wright, architects, New York City.
- 3. A cottage at Mt. Vernon, N. Y., erected at a cost of \$4,500. Perspective elevations and floor plans. Mr. Walter F. Stickles, architect, Mt. Vernon, N. Y. An attractive design.
- 4. The handsome residence of W. K. Clarkson, Esq., Breeklyn, N. Y., erected at a cost of \$15,000. Two perspective elevations and floor plans. Messrs. J. C. Cady & Co., architects, New York City.
- A residence of moderate cost at Bronxwood Park, N. Y. Perspective elevation and floor plans. Mr. A. F. Leicht, architect, New York City. A pleasing
- The residence of W. D. Love, Esq., at Bronxwood Park, N. Y. Two perspective elevations and floor plans. Mr. W. H. Cable, architect, New York City. A neat design treated in the Queen Anne
- cost of \$7,500. Two perspective elevations and fleer plans. Mr. Jehn J. Petit, architect, Breeklyn, N. Y.
- 8. A residence at Mt. Vernen, N. Y. Two perspective the Colonial style. Mr. Chas. E. Miller, architect, New York City.
- 9. A picturesque and well appointed residence at Belle Haven, Conn., recently erected for E. C. Converse, Esq. Four perspective elevations and floor plans. An excellent design. Mr. Bruce Price, architect, New York City.
- 10. A Colonial cottage at Bayonne, N. J., recently erected for Joseph Thomas, Esq., at a cost complete \$2,700. Perspective elevation and floor plan. Mr. A. C. Lengyear, architect, New Yerk City.
- 11. Miscellaneous contents.—Hints to readers.—The education of customers.-How to catch contracts.metal ceilings, illustrated.—New wood stains.—
 Weodwork vs. flame.—Ebonizing wood.—A stove
 for heating water, illustrated.—Columbian Exposition award for copper and brass goods.—An improved band saw file, illustrated .- How to move large maples.—Value of coverings for steam pipes. elevator, illustrated.

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(6331) S. M. B. asks: What is the proper size of steam ports and exhaust ports and bridges between ports of cylinder 21/2 inches by 3 inches stroke. 34 inch travel of valve, also the power of engine at 300 revolutions per minute with 70 pounds steam pressure?
Would an oscillating engine develop the same power, of same dimensions? What size boat would above engine run? Give height of frame and length of pitman rod for A Colonial residence at Flatbush, L. I., erected at a upright engine of above dimension, proper size of link and length of eccentric rods and size of belt and fly wheel; also would small boiler, 22 inches high, 12 inches diameter, fire bex 10 inches high, 10 inches diame ter, flues 12 inches long, 2 inches diameter, upright, elevations and floor plans. A pleasing design in generate enough steam to run above engine? If not what size should I have? A. Steam ports and bridges may be % inch wide, exhaust port % inch, all 1 inch long. The engine should develop an indicated 3/4 horse power at 3/2 inch cut-off. An oscillating engine of the same size should develop the same power, but its structural defect does not recommend it. The power is suitable for a 14 foot sharp built boat of the row boat type. Connecting red should be 8 inches leng, center to center. Other details can only be made from a detail drawing. A 11/2 inch belt and 16 inch flywheel. The vertical beiler should be 25 inches high, 15 inches diameter, with twenty 1/4 inch tubes for the above engine and speed

(6332) B. F. E. asks: What are the The latest and best designs for houses.—Diamond A. The central negative electrode is silver; the depolar metals and fluids used in the chloride of silver battery cement plaster.—Preserving metals in reefs, bridges, etc.—A perfect reefing material.—Stamped electrode is zinc; the excitant is a solution of ammonium

(6333) Denver House asks: Given a perfect wheel made to revolve free on a perfect axle, will -Watering garden plants.-Earthquake effect on it return from its forward motion npon stopping? A. brick buildings.—The trouble New York builders On a horizontal axis the wheel will have a tendency to have.-Foothold on pavements.-Milwaukee water slightly turn back from the instant of stopping, to come to an equilibrium. The small difference in the size of the journal and its bearing allows the arnal to roll up returns to a center bearing by gravity. which gives the wheel a backward metion. This should not take place in a vertical axle.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 18, 1894,

[See note at end of list about copies of these patents.]

1	
	Addressing envelopes, etc., machinery for, G.
	Advertising machine, sign, Briggs & Patterson 531,018
ı	Agricultural machinery, gearing and gear cover-
y	Air brake, J. D. P. Schenck
-	Air brakes black system for automatically one-
- İ	rating, J. H. Fex
ا -	Air brakes, mechanism for automatically actuat-
-	ing, J. H. F•x
f	Addressing envelopes, etc., machinery for, G. Clark
r s	Alarm. See Burglar alarm.
e	Alakali, precess of and apparatus for the production of caustic, C. T. J. Vautin. 531,235 Apartment house, M. L. Ungrich. 531,141 Apples, pears, etc., machine for pulping, C. J. Ollagnier. 531,688
t	Apples pears etc. machine for Dulping C. J.
d	•llagnier
	Ax pells, machine for making, E. Rogers 531,221 Bait recentable, W. B. Gilmore
	Baling press, A. L. Cox
c	Apples, pears, etc., machine for pulping, C. J. ### Dilagnier ### Sil. #
7,	Bandage, suspensory, J. Teuscher, Jr
	Bearing wheel, ball. H. F. Coates
= 3	Belt, electric. Fuller and Taylor
l	Bandage, suspensery, J. Teuscher, Jr. 531,252 Barrel making machine, Vale & Ohl 531,263 Bearing wheel, ball. H. F. Coates. 531,101 Belt, electric, Fuller and Taylor. 531,102 Bench stop, J. Daily. 531,102 Bicycle brake, Litchfield & Sanford. 531,052 Bicycle brake, C. (E. Wrightsh. Jr. 531,155
	Bicycle lubricator, C. O. Furbush, Jr
	Binder for music, magazines, etc., Beeing & Stork
j	Bit. See Bridle bit. Expansion bit.
	Bleaching powder, apparatus for making, C. Kellner
	ner
	Rettle stepper and filler, combined, I. Pemerey 531,133
3,	Beard. See Sheet beard. Bettle stepper and filler, combined, I. Pemerey 531,133 Bettle steppers, machine for feeding crewn, N. Musley
r	Powling hall E (1 Dekkonwodo) 521 102
ı	Box. See Match box. Box. Z. B. Webb. Bracket. See Dental bracket. Bracket. See Airbrake. Bicyclebrake. Carbrake.
<u>.</u>	Bracket. See Dental bracket.
t	Wagon brake. Bicycle brake. Car brake.
ι,	Brake. See Air brake. Bicycle brake. Car brake. Wasen brake. Bridge, truss. D. F. Lane. 531,048 Bridge, truss. D. F. Lane. 531,230 Bridge truss. D. F. Lane. 531,252 Brooder, chicken. L. C. Billings. 531,255 Broom. D. A. McDonel. 531,056 Breoms, manufacturing. D. A. McDonel. 531,055 Brush bandle, flue. E. P. Hunt. 531,639 Brush bandle, flue. E. P. Hunt. 530,947 Burglar alarm. defontbing. J. W. Horn. 530,947 Burglar alarm. systems, circuit cleser for. 530,976 Burglar alarm. 530,975
r	Brooder, chicken, L. C. Billings
d	Broom, D. A. McDonel
f	Brush handle, flue, E. P. Hunt
f	Buckle, suspender, J. N. McGriff
e	Burglar a arm system, A. stromberg
	Stromberg
d .	Stremberg 530,975 Burner. See Hydrocarbon burner. Lamp burner.
f	Ruming granular fuel apparatus for C W Clay
	beurne machine A. J. Shipley. 531.160 Butten setting machine A. J. Shipley. 531.224 Cabinet, stationery, L. C. Beardsley. 531.250 Cables, tension device for towing, Humphrey & Heffman. 530.995
У	Cabinet, stationery, L. C. Beardsley 531,250
ĺ	Heff man 530,995
_	Camera. See Folding camera.
8	Candy, machine for cutting stick, J. M. Allardyce 531,084
2,	Car brake and power controller, electric A. W.
0	Mitchell 531,268
?	Car construction railway, C. A. Smith
f.	Car coupling L. T. Buckus
e	Cables, tension elvice for towing, Humphrey & Heffman. 530,995 Camera. See Folding camera. 531,028 Candle grasp, H. Glaser. 531,684 Car brake and power controller, electric, A. W. Mitchell. 531,288 Car brake and power controller, electric, A. W. Mitchell. 531,288 Car wrake, automatic, H. E. Olsen. 531,31 Car construction, railway, C. A. Smith. 530,999 Car coupling, L. T. Buckus. 531,415 Car coupling, J. Clark. 531,690 Car fender, Engel & Jucom. 531,110 Car fender, attoget A. Jucom. 531,234 Car fender, attoget, A. H. Brock. 531,234 Car meter, street, J. H. Brock. 531,255 Car meter, street, J. Radomski. 531,255
r	Car fender, Engel & Juram
k:	Car fender, street, W. H. Brock 531,258
- j	Car seat, reversible, S. Hoffman
2	Car fender, automatic street, J. T. Van Gestel. 531,234 Car fender, street, W. H. Breck. 531,258 Car meter, street, J. Radomski. 531,258 Car seat, reversible, S. Hoffman. 531,122 Card, reinforced stencil, F. D. Belknap. 530,318, 530,919 Cartridge shell for practice shoeting, W. M. Thomas. 531,233 Case. See Gear case. Pencil case. Piano case. Cash registers, multiple adding mach ine for C.
)-	Themas
t.,	Case. See Gear case. Pencil case. Plano case. Cash registers, multiple adding machine for C.
٠, ١	J. Ryberg
8 !	Cash registers, multiple adding mach ine for, C. J. Ryberg. 531,277 Cash registers, sealing device for, J. O. Byrns. 530,924 Chain link, R. A. & C. Breal. 530,921 Chair. See Rail chair. Railway chair. Charging apparatus. E. Solvay 531,282 Chart, astronomical. F. E. Ormsby. 531,681
	Chair. See Rail chair. Railway chair. Charging apparatus. E. Solvay 531 282
r	Chart, astronomical. F. E. Ormsby
e	Clay product machines, cutter for, J. B. • mwake 531,213
.1	Cleaner. See Wheel cleaner.
r	Chipper attachment, half, C. O. Bechate
۱-	Clock, electric programme, J. L. McCaskey 531,002
•	Clothes line fastener, C. Bartsch
۲.	Clock, electric programme, J. L. McCaskey. 551,002 Clothes line fastener, C. Bartsch. 551,248 Clutch, friction, J. A. Barnes. 551,014 Coffee pot, C. C. Davis. 551,164
; -	Clock, electric programme, J. L. McLaskey 351,002 Clothes line fastener, C. Bartisch 531,248 Clutch, friction, J. A. Barnes 531,014 Coffee pot, C. C. Davis. 531,164 Coin bolding and delivering device, C. F. Kraump 530,997 Compound engine, J. Feebles. 531,272
r	Clock, electric programme, J. L. McLaskey 351,042 Clothes line fastener, C. Bartsch 531,248 Clutch, friction, J. A. Barnes 531,044 Coffee pot, C. C. Davis. 531,164 Coin bolding and delivering device, C. F. Kraump 530,937 Compound engine, J. Pecebles 531,272 Confectionery machine, S. J. Hicks 531,653 Controller handle, H. Mittelsslorf 531,653
; -	Chart, astronomical F. E. Ormsby. 531,680 Churn, J. A. Maddox
r y	Clock, electric programme, J. L. McLaskey 531,028 Clothes line fastener, C. Bartisch 531,248 Clutch, friction, J. A. Barnes 531,014 Coffee Pot, C. C. Davis. 531,164 Coin bolding and delivering device, C. F. Kraump 530,937 Compound elugine, J. Peebles. 531,272 Confectionery machine, S. J. Hicks. 531,632 Controller handle, H. Mittelsdorf 531,632 Corset, T. S. Gilbert. 531,179 Cotton gin, roller, O. F. Goodwin. 530,941 Cotton opener, A. Kirschner. 531,133
r y	Clock, electric programme, J. L. McCaskey 531,028 Clothes line fastener, C. Bartsch. 531,248 Clutch, friction, J. A. Barnes. 531,014 Coffee pot, C. C. Davis. 531,164 Coin bolding and delivering device, C. F. Kraump 530,997 Compound eluzine, J. Peebles. 531,272 Confectionery machine, S. J. Hicks. 531,273 Contreller handle. H. Mittelsdorf. 531,633 Contreller handle. H. Mittelsdorf. 531,179 Cotton gin, reller. O. F. Goodwin. 530,941 Cotton opener, A. Kirschner. 531,133 Cotton presses, combined belt shifter and brake for, T. M. Wallace.
r y e	Clock, electric programme, J. L. McCaskey 531,002 Clothes line fastener, C. Bartisch 531,248 Clutch, friction, J. A. Barnes 531,014 Coffee pot, C. C. Davis 531,014 Coffee pot, C. C. Davis 531,014 Coffee pot, C. C. Davis 531,472 Compound engine, J. Feebles 531,472 Controller mandle, H. Mittelsoff 531,472 Controller handle, H. Mittelsoff 531,622 Corset, T. S. Gilbert 531,179 Cotton opener, A. Kirschner 531,032 Cotton opene
e ?	Clock, electric programme, J. L. McCaskey 331,042 Clothes line fastener, C. Bartsch. 331,248 Clutch, friction, J. A. Barnes. 531,044 Coffee pot, C. C. Davis. 531,164 Coin bolding and delivering device, C. F. Kraump 530,997 Compound engine, J. Feebles. 531,272 Confectionery machine, S. J. Hicks. 531,652 Controller handle. H. Mittelsdorf. 531,162 Correct, T. S. Gilbert. 531,179 Cotton opener, A. Kirschner. 531,179 Cotton opener, A. Kirschner. 531,193 Coupling, See Car coupling. Pipe coupling. 531,071 Coupling, S. A. Stabley. 531,071
e e	Clock, electric programme, J. L. McCaskey 531,042 Clothes line fastener, C. Bartsch 531,248 Clutch, friction, J. A. Barnes 531,041 Coffee pot, C. C. Davis 531,164 Coin bolding and delivering device, C. F. Kraump 530,947 Compound engine, J. Peebles 531,272 Confectionery machine, S. J. Hicks 531,652 Controller handle. H. Mittelseof 531,652 Correct, T. S. Gilbert 531,179 Cotton opener, A. Kirschner 531,179 Cotton opener, A. Kirschner 531,193 Cotton opener, A. Kirschner 531,193 Cotton opener, A. Kirschner 530,978 Couch bed and bathub, combined, B. S. Maben 531,202 Coupling. See Car coupling. Pipe coupling. 531,071 Cribs or bedsteads, support for campy reds in metallic, W. T. Mersercau 1
e ?	Clock, electric programme, J. L. McCaskey 531,042 Clothes line fastener, C. Bartsch. 531,248 Clutch, friction, J. A. Barnes. 531,014 Coffee pot, C. C. Davis. 531,164 Coffee pot, C. C. Davis. 531,164 Coffee pot, C. C. Davis. 531,167 Compound engine, J. Feebles. 531,272 Confectionery machine, S. J. Hicks. 531,652 Controller handle. H. Mittelselerf. 531,162 Correct, T. S. Gilbert. 531,179 Cotton opener, A. Kirschner. 531,179 Cotton opener, A. Kirschner. 531,179 Cotton opener, A. Kirschner. 531,193 Cotton opener, A. Kirschner. 531,202 Cougling. See Car coupling. Pipe coupling. 531,202 Coupling. See Car coupling. Pipe coupling. 531,071 Cribs of bedsteads, support for canopy reds in metallic, W. T. Mersereau. 530,953 Crusher. See One crusher. 530,953
e ? · e n	Clock, electric programme, J. L. McLaskey 531,042 Clothes line fastener, C. Bartisch 531,248 Clutch, friction, J. A. Barnes 531,044 Coffee pot, C. C. Davis 531,164 Coffee pot, C. C. Davis 531,164 Coffee pot, C. C. Davis 531,272 Confectionery machine, S. J. Hicks 531,272 Confectionery machine, S. J. Hicks 531,652 Correct, T. S. Gilbert 531,162 Correct, T. S. Gilbert 531,173 Cotton opener, A. Kirschner 531,173 Cotton opener, A. Kirschner 531,173 Cotton presses, combined belt shifter and brake for, T. M. Wallace 50,273 Couch, bed and athout, combined, B. S. Maben 531,202 Coupling, See Car coupling, Pipe coupling. Coupling, See Car coupling 19pe coupling. Cribs or bedsteads, support for canopy rods in metallic, W. T. Mersereau 590,953 Crusher, See Ore crusher. Cultivator, T. Belair 531,252 Cultivator, A. Lindgren 531,200
e ?	Clock, electric programme, J. L. McCaskey 531,042 Clothes line fastener, C. Bartisch 531,248 Clutch, friction, J. A. Barnes 531,044 Coffee pot, C. C. Davis. 531,144 Coffee pot, C. C. Davis. 531,147 Confeetionery machine, S. J. Hicks 531,472 Controller handle. H. Mittelsoff 531,472 Controller handle. H. Mittelsoff 531,622 Corset, T. S. Gilbert. 531,179 Cotton opener, A. Kirschner 531,193 Could open 531,193 Could opener 531,193 Could opener 531,293 Could opener 531,293 Crush of a control opener 531,293 Crush opener 531,293 Crush opener 531,293 Crush opener 531,293 Cultivatur, A. Linggren 531,293 Cultivatur, A. Linggren 530,932
e ? · · e	Clock, electric programme, J. L. McCaskey 531,028 (Clothes line fastener, C. Bartisch 531,248 (Clutch, friction, J. A. Barnes 531,014 (Office pot, C. C. Davis. 531,034 (Office
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