(25) G. H. M. asks: 1. How long should and small streams of water are thrown on the lower durable a nickel plating, using say three cells Daniell's battery? I have used the information from your article on nickel plating, but have no idea how long the arti- requires only a quarter of an bour to shape the millful cles should remain in the plating bath. A. Expose from one to three hours according to requirements. 2. scratch brushed or scoured, or simply allowed to remain undisturbed? A In most cases it is not necessary to remove them. 3. Can an article once nickel plated and stripping or removing the old plating? These questions I can find no satisfactory answer to in any work at my command, and living away from a large city can consult with no nickel plater. A. Yes, if the coating is perfect. In most cases it is better to strip. 4. Can a substantial silver coating be applied to an article with a bath and battery, but without using a silver anode, and if so, how can it be done? I am only an amateur, and these questions will solve some difficulties if you will answer em. A. Yes. Use carbon or platinum anode bath cannot be depended upon, however, as the silver salts soon become exhausted.

(26) R. S. writes: I would like to know how to make a strong mucilage, that I can put on the back of paper, and use it after it is dry, by moistening it as you would a postage stamp. A. Try the following: Cooper's liquid glue, gum arabic, and white sugar equal parts, hot water, q. s.

(27) W. S. writes: I have the charge of a 35 horse power engine, stationary, making 165 revolu- C. S. tions per minute, slide valves. There is a dispute among some of us in regard to se tring the valves to realize the most power. A. Without knowing the dimensions and proportions of the engine, we could not advise you fully; but at the speedyou run the engine, the valve should have considerable lead.

(28) E. S. C. asks: 1. What is the best size of wire for line for acoustic telephones? A. No. 30 2. Should the wire be hard or soft ? A. Soft. 3. Will any other wire beside copper answer for line? A. Soft brass wire will answer. Soft iron wire serves a good purpose, but is not durable. 4. What kind of type is used by bookbinders for printing gold letters on cloth or leather. Will common printing type do? Brass usually. Common printing type may be used, but great care will be required to avoid melting while heating them. 5. What is the powder composed of which they dust on the leather previous to applying the gold leaf? A. Well beaten white of an egg diluted with water is used ! lar. In ordering please state the number and date of the for this purpose. 6. How can I transfer newspaper cuts to wood to be engraved? A. Take a saturated alcoholic solution of potash, pour it on the engraving, and immediately remove all superfluous liquid by means of blotting paper. Lay the engraving while damp upon the wood aud place it in a press (a copper-plate press is best). The transfer will be obtained immediately. The engraving must be immersed in clear cold water after the transfer is made.

(29) W. W. asks: 1. Is the convosite metal made up from the sulphurets of several metals, and described as recently invented, inoxidizable, black, hard as wrought iron, melts at 300° Fah., expands in casting, cost \$50 per ton—is it sold in this country? A. You probably refer to Spence metal. It is described in SUPPLEMENT, 222. For further information in regard to it address dealers in metals who advertise in our columns. 2. Somewhere in your columns you state that a French authority asserts a quart of nitroglycerine to be equal to 5,000 horse power working continuously. Is this not a misprint, or too high an estimate? But, as suming it to be correct, I read often in the Scientific paper, and reports of the Aeronautical Society, etc., that if the power were controllable, it would solve the flying question. Suppose one lb. Mowbray's glycerine were mixed with several lb. of raw unconverted glycerine, would not its violence be reduced, like the case of the Otto" silent " gas engine, in which the gas is diluted, etc.? A. We know of no successful experiments in this line. When largely diluted, as you suggest, the detonation of the explosive becomes very difficult and uncertain The extraordinary energy developed in the explosion of nitroglycerine is largely due to the almost instantaneous nature of the reaction in which it consists; and while by the dilution of the liquid by a comparatively inert substance, it may in some degree be possible to bring the power as measured by the volume of gaseous matter produced in the reaction within control, it would seem to be impossible to retard the rapidity of the reaction. Considering the power developed by the increase of volume from the liquid to the heat expanded gas, only the estimate referred to is doubtless

(30) S. F. asks: 1. What is the best material for small embossed ornamental blocks? A. Papier mache answers very well. 2. What are the proportions of the mixture of bullock's blood and sawdustisit subjected to pressure, and subsequently dried, to get best results? A. Use enough of the blood to completely moisten the dust. It is submitted to hydraulic pressure, then gradually heated to about 300° Fah.

(31) W. T. asks (1) how cores for brass castings are made. A. The cores are made of sharp sand to which a very small proportion of flour has been added. The sand and flour are mixed dry; the mixture is then moistened with a little stale beer or molasses. and water. 2. What preparation they use for pasting parts of cores together. A. Flour paste. 3. Why will the mould not fill up with metal, providing it has lots of air holes? A. Your sand may be rammed too tight, or your metal may not be hot enough.

(32) I. S. R. writes: I have often wondered how common playing marbles were made, but never thought the matter of sufficient importance to warrant much effort to find out; but as my little boy, aged 13. now asks me the question, I refer the matter to you. A. Playing marbles are made from a hard stone found near Coburg in Saxony. The stone is first broken with a hammer into cubical fragments, and about 100 to 150 of them are ground at once. The mill is something like a flour mill; the lower stone is stationary and filled with concentric grooves, Which receive the stone fragments. The upper stone is revolved by suitable power.

work be left in the plating bath to give as thick and stone. The pressure of the running stone on the small fragments causes them to roll in all directions until the are reduced to perfect spherical form. It is said that i

(33) J. W. S. asks if there is any preparation made for cleaning brass while hot, such as the Should the articles be removed from the bath and throttle box, etc., on locomotives, whereby it can be scratch brushed or scoured, or simply allowed to remain thoroughly cleaned and at the same time retain its lus. ter. I am a locomotive fireman, and like to keep a clean engine, but as she is always hot, I have failed so far to still covered all over with nickel be replated without find anything to answer the purpose. A. Where it is not liable to get into wearing surfaces washed emery moistened with kerosene oil is very good. Where the surfaces are subject to wear tripoli or rotten stone and kerosene oil may be used. The oil should be thoroughly removed by means of a cloth and a little dry

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#### fofficial.1

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A printed copy of the specification and drawing patent in the annexed list, also of any patent since 1866, will be furnished from this office for o lar. In ordering please state the number and date patent desired and remit to Munn & Co., 37 Par New York city. We also furnish copies of I granted prior to 1866; but at increased cost, as the fications not being printed, must be copied by har Alkali balls, manufacture of, M. M. Smith	issued ne dol- e of the k Row, patents e speci- nd. 238,064 238,050 238,107 238,196 238,029 238,164 238,099	Harvester and husker, corn, Randall & Snow.  Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Fiper.  Hot air furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell  Ladder, L. P. Teed  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson.	238,016 238,035 238,072 238,177 238,122 237,951 238,032 238,032 238,002 238,067 237,963 238,067 238,163 238,163 238,112 238,151 238,151
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A printed copy of the specification and drawing patent in the annexed list, also of any patent since 1866, will be furnished from this office for o lar. In ordering please state the number and date patent desired and remit to Munn & Co., 37 Par New York city. We also furnish copies of I granted prior to 1866; but at increased cost, as the fications not being printed, must be copied by har Alkali balls, manufacture of, M. M. Smith	issued ne dol- e of the k Row. patents sespeci- ad. 238,064 238,060 238,107 238,196 238,196 238,164 238,009 238,1164 238,009 238,110 237,955	Harvester and husker, corn, Randall & Snow.  Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Fiper.  Hot air furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell  Ladder, L. P. Teed  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson.	238,016 238,035 238,075 238,177 238,022 237,951 237,953 238,103 238,002 9,588 237,073 238,163 238,067 237,93 238,113 238,113 238,113 238,115 238,157
A printed copy of the specification and drawing patent in the annexed list, also of any patent since 1866, will be furnished from this office for o lar. In ordering please state the number and date patent desired and remit to Munn & Co., 37 Par New York city. We also furnish copies of I granted prior to 1866; but at increased cost, as the fications not being printed, must be copied by har Alkali balls, manufacture of, M. M. Smith	issued ne dol- e of the k Row. patents e speci- nd. 238,064 238,050 238,107 238,106 238,029 238,10 238,10 237,955 9,582 238,012	Harvester and husker, corn, Randall & Snow.  Hat felting machine, G. Yule.  Hat, sweat lining. R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Piper.  Hot alr furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell.  Ludden, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson.  Lozenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.	238,016 239,035 239,077 238,177 238,022 237,951 237,953 238,153 238,002 9,588 238,067 237,963 238,163 238,163 238,164 238,113 238,153 238,153 238,157 238,157
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Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Piper.  Hot air furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jeweiry, manufacture of, G. E. Adams.  Knob, &oor, S. Russell.  Ladder, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild  Loom temple, R. P. Pearson.  Lozenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.  Mail bag and lock, A. O. Kruger.  Mail bag receiver, Smith & McQueen.  Meat and vegetable cutter, W. H. Pierce (r).  Mechan movement, N. Meyers.  Milk setting and skimming apparatus, Platt & McCloud.  Monument, D. Schuyler.  235,057,	233,016 239,055 238,077 238,027 238,027 238,027 237,951 237,951 237,951 237,951 237,951 237,951 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,10
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Matthews.	233,016 239,055 238,077 238,027 238,027 238,027 237,951 237,953 238,003 238,002 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,133 238,143 238,157 238,153 238,153 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,157 238,15
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Meyers  Musical instrument mechanical, A. Fowler.  Musical instrument, mechanical, A. Fowler.  Musical instrument, mechanical, M. J. Matthews,  Musical instrument, mechanical, A. L. Matthews,  Musical instrument, mechanical, M. J. Matthews,  Musical instrument, mechanical, M. J. 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A printed copy of the specification and drawing patent in the annexed list, also of any patent since 1866, will be furnished from this office for olar. In ordering please state the number and date patent desired and remit to Munn & Co., 37 Par New York city. We also furnish copies of 187 particular of 1866; but at increased cost, as the fications not being printed, must be copied by har Alkali balls, manufacture of, M. M. Smith.  Animal shears, Benavides & Arthur.  Bed bottom, Granger & Frost.  Bed, folding, E. S. Griffith.  Bed, spring, A. J. Curtis.  Beer cooler, S. G. Spicer.  Belt coupling, E. O. Sawyer.  Belt fastener, P. Thacher.  Bessemer plant and apparatus, W. Hainsworth.  Binder, temporary, T. H. Brown, Jr	issued ne dol- e of the k Row, patents e speci- nd.  238,064 238,050 238,107 238,196 238,029 238,105 238,106 237,955 9,582 238,012 238,012 238,013 237,946 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,131 238,130 237,944 238,130 237,944 238,130 237,944	Harvester and husker, corn, Randall & Snow.  Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Piper.  Hot alr furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell.  Ludder, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson.  Løzenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.  Mail bag and lock, A. O. Kruger.  Mail bag delivery apparatus, Smith & McQueen.  Meat and vegetable cutter, W. H. Pierce (r).  Mechan movement, N. Meyers.  Milk setting and skimming apparatus, Platt &  McCloud.  Monument, D. Schuyler.  Musical instrument case, W. W. Hyde.  Musical instrument, mechanical, A. Fowler.  Musical instrument, mechanical, M. J. Matthews.	233,045 233,077 238,177 238,127 238,127 238,127 238,128 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,139 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138 238,138
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Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger  Horseshoe nail plate, W. W. Miner  Hose reel, H. B. Piper  Hot air furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, E. Sloper (r)  Ingot mould, compound, Catley & Graff  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell.  Ladden, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson  Lozenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.  Mail bag and lock, A. O. Kruger.  Mail bag delivery apparatus, Smith & McQueen.  Mail bag receiver, Smith & McQueen.  Mail bag receiver, Smith & McQueen.  Meat and vegetable cutter, W. 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Richardson	233,016 239,05 239,05 238,077 238,022 238,177 238,022 237,951 237,953 237,953 238,153 238,153 238,032 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153
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Brown, Jr	issued ne dol- e of the k Row, patents e speci- nd. 238,064 238,050 238,107 238,196 238,095 238,164 238,009 238,164 238,093 238,185 238,185 238,181 238,132 238,018 238,181 238,130 237,945 238,181 238,132 238,182 238,182 238,182 238,182 238,182 238,182 238,182 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 238,185 23	Harvester and husker, corn, Randall & Snow.  Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Piper.  Hot alr furnace, M. H. Roberts.  Hub boring bit, H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell.  Ladder, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Lock et, J. Rothschild.  Loom temple, R. P. Pearson.  Lozenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.  Mail bag and lock, A. O. Kruger.  Mail bag receiver, Smith & McQueen.  Meat and Vegetable cutter, W. H. Pierce (r).  Mechan movement, N. Meyers.  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Joines.	233,045 233,077 238,177 238,102 238,077 238,102 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,030 238,103 238,107 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,15
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Hat felting machine, G. Yule.  Hat, sweat lining, R. Eickemeyer.  Heating apparatus, hot water, E. Backus.  Hinge, spring, J. Spruce.  Hog cholera compound, L. L. Bockes.  Horse rake, C. Bollinger.  Horseshoe nail plate, W. W. Miner.  Hose reel, H. B. Piper.  Hot alr furnace, M. H. Roberts.  Hub boring bit. H. W. Ransom.  Hydrocarbon furnace, B. Sloper (r)  Ingot mould, compound, Catley & Graff.  Iron, manufacture of sheet, I. E. Craig.  Jewelry, manufacture of, G. E. Adams.  Knob, door, S. Russell.  Ladder, L. P. Teed.  Lap ring, J. P. Morris.  Life saving mattress, W. H. Horton.  Lock, E. Hand.  Locket, J. Rothschild.  Loom temple, R. P. Pearson.  Lozenges, manufacturing, T. Robertson.  Lubricating the cylinders of steam engines, apparatus for, M. S. Cabbell.  Magneto signal apparatus, Edison & Johnson.  Mail bag and lock, A. O. Kruger.  Mail bad gelivery apparatus, Smith & McQueen.  Meat and vegetable cutter, W. H. Pierce (r).  Mechan movement, N. Meyers.  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Speers.	233,045 233,077 238,177 238,102 238,177 238,102 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163
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Musical inst	233,016 233,027 238,177 238,1027 238,1027 238,1027 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103
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Judson.	233,045 233,077 238,177 238,102 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103
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Corneal.	233,045 233,077 238,027 238,177 238,022 238,153 237,951 237,953 238,163 238,103 238,103 238,103 238,153 238,153 238,153 238,157 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,153 238,15
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Hillman	238,016 239,05 238,077 238,027 238,177 238,022 237,951 238,153 238,016 238,017 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,164 238,165 238,165 238,166 238,167 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168 238,168
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Hillman Pen, stylographic fountain, Brown & Sutherland.	233,045 233,077 238,177 238,102 238,102 238,030 238,102 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103 238,103
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Hillman	233,045 233,077 238,027 238,027 238,027 238,027 238,027 238,027 238,028 9,588 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023 238,023
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Glynn.	233,045 233,077 238,027 238,177 238,022 237,951 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,164 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,16
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Schuyler	233,045 233,077 238,027 238,077 238,077 238,077 238,072 238,073 238,163 238,063 238,072 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,163 238,164 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,165 238,16
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Pip	233,045 233,077 233,177 233,177 233,177 233,177 233,177 233,103 233,103 233,103 233,003 233,003 233,003 233,003 233,003 233,003 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,103 233,10
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