

AGRICULTURAL.

dedicated to the Interests of Farmers and Stockmen.

Cheese-Making.

The following is from the pen of Frank D. Holmes, of Owatonna, Minn., one of the most successful dairymen of that State:

To make good cheese it is necessary to have good milk to begin with, and good milk cannot be had from poor, half-fed cows. Then it is necessary to feed the cows liberally, have plenty of good water and good us-go. Cows should never be run and worried by dogs. This injures milk for cheese-making. One bad mess of milk may spoil a whole vat of cheese. Care and cleanliness, if the cows are healthy and give proper food, will insure good milk always. It is unreasonable to expect a good cheese-maker to turn a bad article of cheese out from poor milk. If a patron carries sour or rancid milk to the factory, he must expect had, sour cheese. Set the milk in the vats or cans and let it stand 12 to 24 hours at 60 degrees, then mix with the morning's milk in the morning, but don't use the little skimmer. Leave cream all in. After the milk is all in the vat, the heat may be started at 82 or 84 degrees, and raised to about 82 or 84 degrees, as to the condition of the cheese. If we set the milk below 82 the curd works too slow; if set above 82 it works too fast, while the temperature is being raised. It should receive frequent stirrings to keep the cream rising, and thus becoming partly wasted or drawn off from the vat. The rennet should next be added until the temperature stops; then enough rennet should be added in and should be agitated at fifteen minutes, and coagulation should begin in about twenty minutes after stirring after the rennet is in to prevent the cream from rising and curd. In a cool room, when the curd comes quickly and there is a fall of the temperature of the milk, it will be thin cream on the surface; this will form a soft curd, which sticks to the vat and is very annoying. If you want a quick-curing cheese, more rennet should be added so as to be cured slowly and kept in case. As a rule the more rennet the lower the temperature should be at which the milk is set and the more worked. After the milk begins to thicken, a cloth should be spread over the vat to keep the surface warm. There should be no raising of the temperature after the rennet is added and milk comes to a standstill until the curd is cut fine. The curd should be as soon as it will break clean as the finger when placed in it and gently upward; the early cutting is very necessary; the clearest cheese is always obtained by cutting the curd more readily when it is young tender. This is the object of cutting the curd to get out the whey; the curd should be cut with both a horizontal and perpendicular knife. Never let the curd get tough and leathery, as there is always more waste out as fine a curd. Cut the curd fine, the finer the better, as it exerts the whey easier and more thoroughly and cooks more evenly, and an easier action of the rennet.

After the cutting is done and the whey commences to settle, the heat should be started at once, but not rapidly. The action of the rennet is slow, it takes to wait a few minutes for the curd to harden a little. After the heat is added, gently stir the mass to the curd from packing together to keep a more even temperature throughout the vat; as the heat rises the curd gets and the less liable to injure the curd; but keep up stirring till the curd is heated up to 82 or 84 degrees, where it will take at least one hour after the heat is turned on. This temperature should be kept until the curd is cooked, and the action of the rennet is perfect than at any other degree. After the curd is done cooking some whey may be drawn off, as it is easy to handle the balance in the vat. After the curd is cooked—which cheese-maker is able to tell—the curd should be drawn off before the whey comes on. Many curds, by remaining in the whey too long, make a hard, sour cheese. This kind of cheese is not desirable, but is the kind we get if the acid comes on in the whey. The acid takes with the whey the finest part of the curd. Then I would have the curd drawn before the acid comes on, and dip the curd sweet, and if it is not better, and if you do not have a card mill, would salt all at once. This keeps the curd from packing and you have a curd mill let it lie in whey, and only stir once in a while to let the whole expose to the whey. After the acid comes on, grind the curd, and put to press at about 80 degrees, and at this heat you will get a fine curd, and press well together; let stand twelve hours in the press, and remove to the curing room. Mass cheese may be spoiled by being in a poor room to cure it in, too hot too hot. Seventy degrees to eighty is about the right temperature after ten days a little cooler, but 65 degrees. I had good results curing in a day cellar at 65 degrees. They cure slowly, but are better cheese for it. One good thing is worth three poor ones.

Russia imports annually raw cotton to the value of \$43,000,000. Because poultry is claimed to pay large profits in proportion to the amounts invested therein, it does not follow that all who venture in the poultry business will get rich or make money. It requires capital to conduct great enterprises, and if large amounts are expected large sums must be invested. It is a mistake to lead persons into the belief that there are enormous profits in poultry. But few persons have large sums invested, and a test has never yet been made as to what could really be accomplished. Those who have succeeded know that it is the man or woman, and not the birds, that makes the success. Like any other business, one must thoroughly understand it. Keeping a few flocks of fowls, and venturing upon the management of thousands, are different operations. A small flock could be well kept where thousands could not exist. Yet there are no impossibilities, and as we progress in the art of poultry raising, the business becomes easier and more perfectly understood.

The practice of putting milk warm from the cow directly into tight cans and subjecting it to a warm atmosphere is reprehended by a medical authority. Poisonous properties sufficient to cause unpleasant symptoms are said to be liable to arise from so doing. Cool the milk before canning, and keep at a cool temperature afterward. Give the pig what you feed the worthless curd—the necessary appendage to so many farms. If the pigs are fed what he consumes, there will be a gain on the farm in many ways. There will be one more fat hog for the family supply or for market. There will be peace, where with his presence there are often wry tempers. The stock on the farm is quieter and more easily controlled. Substitute a pig for the pup, and place yourself on a sure basis for profit. Some little interest has been excited by the announcement of the discovery of a new and remarkable variety of asparagus on the steeps of Akhal-Tekiz. It has not been botanically identified, but it is represented as growing perfectly wild, the stalks being nearly as thick as a man's arm and attaining a height of five or six feet, so that one of them is said to suffice ten Russian soldiers for a meal. If the preference of experts for wild asparagus finds justification in this variety, and its flavor is described as equal to that of the best European kinds, asparagus lovers may have a good time before them.

The United States Ahead. Agriculture is regarded as the solid foundation of a nation. The tillers of the soil are industrious, healthy, and dependable, reliable in time of disaster and honest in their views upon all questions. But it is probable that it is because they feed the people that they are regarded as the

rock upon which the great nations rest. Food in war or in days of peace is the first thing essential to existence and success, and the steady, industrious class that is engaged in agriculture is therefore regarded as the most useful and valuable in the nation. The United States leads the world in the amount that it produces in agriculture.

Not only in the aggregate of all industries is the United States far in advance, but in this single industry, that is looked upon as the most important in any nation, it far outranks all countries. In the comparatively brief space of one hundred years such vast areas in this country have been brought under the plow that our harvest is now the greatest in the world. And what tremendous effort and labor it has cost to bring virgin prairies under cultivation, to fell the forests for the plow, to fence, to put up barns, to put up dwellings, to sow and to reap. It represents the work of three generations of as laborious, as bold and as determined a class as ever lived. Much of the work was done in the face of great personal danger. The pioneers had not only to face hard work, but a sleepless and merciless savage. Against sudden massacre, against ambushed rifles, against the midnight torch, the pioneer farmers built their log cabins, put up their fences and furrowed the soil and achieved a result that puts the United States far in advance of every other country in the world in regard to the amount it produces from the soil.

Potato Culture. After careful study of the causes of potato rot and means of prevention, Ontario Agricultural College sets forth the following rules:

- 1. As soon as discovered, dig the potatoes. Delay will allow it to spread to the stems and thence to the tubers. If it reaches these and damp weather comes, rot will certainly appear.
2. After digging, the potatoes should be put in a cool, dry place, thus surrounding them with conditions unfavorable for the growth of the fungus, if any happens to be upon them.
3. Growing early varieties is worthy of consideration, so that they may mature before the season arrives when this parasite is likely to affect the crop.
4. All potato stalks in affected lands, should be gathered and burned, so as to destroy the millions of spores which may be upon them.
5. Use none but good seed. If at all affected, reject them; and plant in well drained land. If the potatoes to be used for seed have been taken from cellars where affected ones were kept, they are likely to have the microscopic spores on them and escape notice. It would be best to get seed from unaffected districts.
6. It is scarcely necessary to remark that it would be injudicious to plant potatoes in the same field the following year, after a visitation of the "rot," inasmuch as the ground may retain the germs of disease.
7. Avoid planting upon heavy clay soil, but prefer a light and dry soil. This presents the fewest conditions suitable for the growth of the fungus.
8. Plant the varieties least affected.

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According to the most careful estimates the population of the United States has increased about 11,500,000 during the last seven years, and of this increase 7,700,000 have been of American, and 3,800,000 of foreign birth.

THE BEGINNING OF THE END. The beginning of disease is a slight debility or disorder of some of the vital organs, the stomach, the liver or the bowels usually. There are dyspeptic symptoms, the liver is troubled some, the skin grows tawny and unhealthy looking, there are pains in the right side or through the right shoulder blade. The climax is often an utter prostration of the physical energies, perhaps a fatal issue. But if the difficulty is met in time with Hostetter's Stomach Bitters, which is always effective as a remedy, and it should be resorted to at an early stage, there will be no reason to apprehend those injurious subsequent effects upon the system often entailed by entirely cured diseases. Far better is it, also, to employ this safe remedial agent in fever and ague, and other malarial complaints, than quinine and other potent drugs, which, even when they do prove effective for a time, ruin the stomach and impair the general health.

James Gordon Bennett is to start a new English daily in Paris.

WHAT WOULD THE WORLD DO Without woman? asks the essayist who starts out to say something new on this oft-treated subject. Of course, the human element of the world would not exist without woman, so the question is gratuitous. It would have been far more sensible to ask: What would the world do without the salvation of woman, without a panacea for her physical ills and cure for her peculiar diseases. In a word, what would the world do without Dr. Pierce's "Favorite Prescription"? It is indispensable for female weakness! It is indispensable for the ills of woman-kind.

Anna Dickinson began life as a school teacher.

Why not get a church or school bell, when Z. T. Wright, Portland, sells them so cheap.

TESTIMONIAL FROM ASSEMBLYMAN EDWARD A. DARRAGH. STATE OF NEW YORK, ASSEMBLY CHAMBER, ALBANY, April 16, 1884.

Some years ago I was thrown from a wagon and fractured two of my ribs. I was so badly hurt that I had to sit up in a chair for four days and nights. The fourth day my mother placed two Alloca's Porous Plasters over my broken ribs. The next day my sufferings diminished and I was able to lie down. I continued to improve every day. Two weeks after the accident I got up and attended to business. I renewed the plasters twice, and found myself almost entirely well in a month, when I sailed for England. My wife is subject to periodic pains in the back that give her rest neither day nor night, but in two hours after applying two Alloca's Plasters she experiences relief, and in two or three days she is well. She also finds them effective in neuralgia and rheumatism. EDWARD A. DARRAGH.

"Brown's Bronchial Troches" are widely known as an admirable remedy for Bronchitis, Hoarseness, Coughs and Throat troubles. Sold only in boxes.

Z. T. Wright, Portland, has the Westinghouse Tresher and Engines. 3 months' treatment for 50c. Piso's Remedy for Catarrh Sold by druggists.

Sarah Bernhardt was a dressmaker's apprentice; she was Matilda Heron.

NIGHTMARE. Sick-headache, depression of spirits and want of ambition are symptoms of a diseased liver. The lungs, stomach and bowels are all in sympathy. Life is only a living death. Dr. Pierce's Golden Medical Discovery, as a upon the torpid liver, and effectually removes all these difficulties and disorders. Nervous feelings, gloomy forebodings, and irritability of temper all disappear.

Gambling has been stopped in Omaha by the city authorities.

BEAUTY of Skin & Scalp RESTORED by CUTICURA Remedies. NOTHING IS KNOWN TO SCIENCE AT ALL comparable to the CUTICURA REMEDIES in their marvellous properties of cleansing, purifying and beautifying the skin and in curing torturing itching scaly and pimply diseases of the skin, scalp and blood, with loss of hair. CUTICURA, the great Skin Cure, and CUTICURA SOAP, an exquisite Skin Beautifier, prepared from it, externally, and CUTICURA RESOLVENT, the new Blood Purifier, internally, are a positive cure for every form of skin and blood disease, from pimples to scrofula. CUTICURA Remedies are absolutely pure and the only infallible skin beautifiers and blood purifiers. Sold everywhere. Price, CUTICURA, 50c.; RESOLVENT, 50c.; SOAP, 25c. Prepared by the PORTER DRUG AND CHEMICAL CO., BOSTON, MASS. Send for "How to Cure Skin Diseases."

Dr. PARDEE'S REMEDY is The Greatest Blood Cleanser. Cures Spring Humors, Salt Rheum, Scrofula, Gout, Rheumatism, AND Regulates The Kidneys & Liver. One bottle taken according to directions will give better results than a gallon of Sarsaparilla, or any of the so-called Blood Purifiers with which the market is glutted. At Druggists, price \$1.00 per bottle.

\$500 REWARD will be paid for any case of Rheumatism which Dr. Pardee's Remedy, properly administered, fails to relieve.

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Charlotte Cushman was the daughter of poor people.

Young or middle-aged men suffering from nervous debility and kindred weaknesses should send 10 cents in stamps for large illustrated treatise suggesting sure means of cure. World's Dispensary Medical Association, Buffalo, N. Y.

Adelaide Neilson began life as a child's nurse.

The Advance Thresher is the best. Z. T. Wright, Portland, for particulars.

When Baby was sick we gave her Castoria. When she was a Child, she cried for Castoria. When she became a Man, she clung to Castoria. When she had Children, she gave them Castoria.

A Job Press that is a job press is the "Old Reliable" Gordon, 2x12 and 10x15. The cheapest, best and strongest in the market. Buy no other. Kept only by PALMER & RY.

READ THIS CAREFULLY. Every man and woman young or old, on this Continent, that is afflicted with any disease, no matter what, that their family physician does not understand, or cannot cure, should write a full description of their trouble to Dr. Forde, or get on the train and visit him. He is prepared to give every instrument of surgery, and the best medicine, for the cure of all diseases, on reasonable terms. Home or foreign, reasonable charges. All correspondence strictly confidential. Enclose stamp. Address W. R. FORDE, M. D., 1111 Broadway, 4, 5 and 12, First National Bank, Portland, Oregon.

Rupture Permanently Cured. No surgery. Work every day. Cures guaranteed. Address Wm. FORDEN & LUTHER, offices 3, 9 and 11, First National Bank, Portland, Oregon.

The only stock of type, presses and printing material will be found at Palmer & Ry's Portland house.

Prices Reduced upon leads, slugs, cases, stands and printers' specialties, by PALMER & RY.

If you want an engine, send to Z. T. Wright, Portland.

TRY GEMMA for breakfast.

A QUESTION ABOUT Brown's Iron Bitters ANSWERED. The question has probably been asked thousands of times: "How can Brown's Iron Bitters be so effective?" Well, it doesn't. But it does cure you because for which a reputable physician would prescribe Brown's Iron Bitters is the best, most effective, most reliable, most pure, and most palatable of all the iron bitters known to the profession, and inquiry of any leading chemist will substantiate the assertion that there are no other preparations of iron that of any other substance used in medicine. This shows conclusively that iron is acknowledged to be the most important factor in successful medical practice. It is, however, a remarkable fact, that prior to the discovery of BROWN'S IRON BITTERS no other preparation of iron was so successful in curing all the ailments for which it is prescribed daily.

BROWN'S IRON BITTERS does not injure the head, or produce constipation, or all other ailments from medicines. BROWN'S IRON BITTERS cures indigestion, Biliousness, Weakness, 1700 Malaria, Chills and Fevers, Tired Feeling, General Debility, Pain in the Side, Back or Limbs, Headache and Neuralgia—all the ailments for which it is prescribed daily.

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One Agent (Nevada only) wanted in every town for TANSILL'S PUNCH 5c.

Your last invoice of "Tansill's Punch" 5c cigars came in yesterday. I was out of them for half a day, and had to call on the Governor for a company of militia to prevent a riot. Have already retailed over 20,000. R. C. MANLEY, Lincoln, Neb. Address: R.W. TANSILL & CO., Chicago

"WORLD" TYPE-WRITER. \$10.00. Send for descriptive circular. Liberal inducements to agents.

DAYTON & HALL, Agents, Portland, Or.

STEINWAY BRANICH & BACH. Steinway, Gabel, Rosenthal, Pianos, Hurd Organs, hand instruments. Largest stock of Sheet Music and Books. Bands supplied at Eastern prices. M. OHAY, 226 Post street, San Francisco.

VINEGAR. The finest old-fashioned home-made Clear Vinegar warranted at \$1.75 for a gallon 8 1/2 qt. full measure, or \$1.40 for short measure; 10 gallons, \$8.00; 25 gallons, \$20.00. 50 qt. in a gallon keg or tin, \$1.75, \$2.00, \$2.25. We have the best. Do not wish to trade in poor articles. Coldest Winter, 75c. per gallon, 50 cents, that beats the world. How at 2 cents that would please you. Canned goods are lower. Dried fruit is coming in—New Apples, 7c. to 10c.; Old, 10c. to 15c. Raisins at 6c., with 1c. anywhere. Coldest brand of Eastern Hams, 10c. to 16c. Heavy fat Bacon, 7c. to 8c.; you are paying 15c. to 18c., why do you do it? Send for full list (free) to SMITH'S CASH STORE, 115 Clay Street, S. F.

Piso's Remedy for Catarrh is the Best, Easiest to Use, and Cheapest.

DR. PARDEE'S REMEDY is The Greatest Blood Cleanser. Cures Spring Humors, Salt Rheum, Scrofula, Gout, Rheumatism, AND Regulates The Kidneys & Liver.

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ROYAL BAKING POWDER Absolutely Pure. The powder never sours. A family of health and happiness. More economical than the ordinary kind, as it makes the lightest and best bread, cakes, pies, etc. Sold by all dealers in household goods. See that the name is on the wrapper. Sold only by PALMER & RY.

HALL'S SARSAPARILLA Cures all Diseases originating from a disordered state of the BLOOD or LIVER. Rheumatism, Neuralgia, Boils, Blotches, Pimples, Scrofula, Tumors, Salt Rheum and Mercurial Pains readily yield to its purifying properties. It leaves the Blood pure, the Liver and Kidneys healthy and the Complexion bright and clear. J. R. GATES & CO., Proprietors, 417 Sansome St., San Francisco.

THE LATEST AND BEST! BREECH LOADING SHOT GUNS. Europe's Most Modern. Manhattan Arms Co. No. 40—Side Snap, Twist Barrel, complete \$20.00 No. 30—Top Snap, Twist Barrel, extension 22.00 No. 30—Top Snap, Twist Barrel, extension 24.00 No. A—Top Snap, Twist Barrel, complete 28.00 No. B—Top Snap, Twist Barrel, complete 28.00 No. C—Top Snap, Laminated Steel, complete 32.00 No. D—Top Snap, Damascus Steel, complete 32.00 No. E—Top Snap, Damascus Steel, complete 35.00

John A. Child & Co., 161 Second St., PORTLAND, OR. Carry a full line of Chemicals, Toilet Articles and Sundries. They make a specialty of attending to MAIL ORDERS. If you need anything in their line send the price with postage, and it will be returned by first mail.

Day SELF-HEATING Bath Tub. No hot water pipe; no heating your rooms. For description, address, Z. T. WRIGHT, Foot Morrison st. Portland, Or. Also dealer in Throwing and General Machinery, Marine Work, Laundry Machinery, in fact anything you want. Give Agent for the Shipman Oil Oil Engine. \$2 AGENTS WANTED '84

ICE! Make your Ice and Ice Cream at home. Cost nothing to make. Price of Machine 850 pp. T. H. DAY, 1212 Valencia st. S. F.

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The Grandest Display of Choicest Woolens ever shown in the City. English, French, Scotch and German Fabrics in endless variety for Suits to measure. One Thousand Different Patterns to select from. SAMPLES, WITH INSTRUCTIONS FOR SELF-MEASUREMENT SENT FREE.

Fine All-Wool Suits to Order from - - \$20.00 Fine All-Wool Pants to Order - - - - 5.00

Only White Labor and First-Class Cutters Employed.

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CASTORIA for Infants and Children. "Castoria is so well adapted to children that I recommend it as superior to any prescription known to me." H. A. ARCHER, M. D., 111 So. Oxford St., Brooklyn, N. Y. Castoria cures Colic, Constipation, Sour Stomach, Diarrhoea, Indigestion, Kills Worms, gives sleep, and promotes digestion. Without injurious medication. THE CHESTER COMPANY, 128 Fulton Street, N. Y.

GOLDEN MEDICAL DISCOVERY CURES ALL HUMORS, from a common Blotch, or Eruption, to the worst Scrofula, Salt-Rheum, "Fever-sores," scaly or Rough Skin, in short, all diseases caused by bad blood are conquered by this powerful, purifying and invigorating medicine. Great Healing Ulcers rapidly heal under its benign influence. Especially has it benefited the patient suffering from the following: Tetter, Itch, Head-Boils, Carbuncles, Sore Eyes, Scrofulous Sores and Swellings, Hip-Joint Diseases, White Swellings, Gout, or Thick Neck, and Enlarged Glands. Send ten cents in stamps for a large treatise, with colored plates, on Skin Diseases, or the same amount for a treatise on Scrofulous Affections.

"THE BLOOD IS THE LIFE." Thoroughly cleanse it by using Dr. Pierce's Golden Medical Discovery, and good digestion, a fair skin, buoyant spirits, and vital strength, will be established.

CONSUMPTION, which is Scrofula of the Lungs, is arrested and cured by this remedy, if taken before the last stages of the disease are reached. From its marvellous power over this terrible fatal disease, when first offering this now celebrated remedy to the public, Dr. Pierce thought severely of calling it his "Consumption Cure," but abandoned that name as too limited for a medicine which, from its wonderful combination of tonic, or strengthening, alterative, or blood-purifying, anti-bilious, pectoral, and nutritive properties, is unequalled, but only as a remedy for consumption, but for all chronic Diseases of the

Liver, Blood, and Lungs. If you feel dull, drowsy, debilitated, have milky color of skin, or yellowish-brown spots on face or body, frequent headache or dizziness, alternate with hot flashes, low spirits and gloomy forebodings, irregular appetite, and coated tongue, you are suffering from Indigestion, Dyspepsia, and Torpid Liver, or "Biliousness." In many cases only part of these symptoms are experienced. As a remedy for all such cases, Dr. Pierce's Golden Medical Discovery is unsurpassed.

For Coughs, Spitting of Blood, Shortness of Breath, Bronchitis, Asthma, Severe Coughs, and kindred affections, it is an efficient remedy. Sold by Druggists at \$1.00, or six BOTTLES for \$5.00. Send ten cents in stamps for Dr. Pierce's book on Consumption. Address, World's Dispensary Medical Association, 615 Main Street, BUFFALO, N. Y.

\$500 REWARD is offered by the proprietors of Dr. Sagar's Catarrh Remedy for a case of catarrh which they cannot cure. If you have a discharge of blood, pus, or mucus, offensive or otherwise, partial loss of smell, taste, or hearing, weak eyes, dull pain or pressure in head, you have Catarrh. Thousands of cases terminating in consumption, are cured by Dr. Sagar's CATARRH REMEDY. It cures Catarrh of Catarrh, "Cold in the Head," and Catarrhal Menstruation. 50 cents.

PENNYROYAL PILLS "CHICHESTER'S ENGLISH." The Original and Only Genuine. Fish and Steady Reliable. Dozens of worthless imitations. Unobtainable in LADIES. Ask your Druggist for "Chichester's English." It has no odor, or taste, or is so small as to be taken in a glass of water. It is for the USA. Sold by Druggists everywhere. Ask for "Chichester's English" Pennyroyal Pills. Tail to color.

THE BEST of Representatives made especially for the use of druggists, and for the purpose of increasing the sale of their goods, and for the purpose of increasing their business, and for the purpose of increasing their profits, and for the purpose of increasing their success, and for the purpose of increasing their fame, and for the purpose of increasing their glory, and for the purpose of increasing their honor, and for the purpose of increasing their respectability, and for the purpose of increasing their influence, and for the purpose of increasing their power, and for the purpose of increasing their authority, and for the purpose of increasing their prestige, and for the purpose of increasing their reputation, and for the purpose of increasing their standing, and for the purpose of increasing their position, and for the purpose of increasing their rank, and for the purpose of increasing their grade, and for the purpose of increasing their degree, and for the purpose of increasing 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