UNITED STATES PATENT OFFICE.

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PROCESS FOR RIPENING CHEESE.

No Drawing.

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To all whom it may concern:

Be it known that I, Edward William rated air, rind rot will ensue.

Coon, a citizen of the United States, residing at 29 South Water St., Philadelphia and phia, in the county of Philadelphia and State of Pennsylvania, have invented certain specified temperatures through switched are at certain specified temperatures through switched are at certain specified temperatures through switched are at certain specified. 10 exact description of the invention, such as to 75 degrees Fahrenheit, and a moisture 65 will enable others skilled in the art to which percentage of from 65% to 95%. Many it appertains to make and use the same.

This invention relates to an improvement in a process for ripening cheese, the 15 application being a continuation in part of the application filed September 1, 1925,

Serial No. 53,949.

It is well known that cheese ripens through fermentation. Fermentation takes 20 place more rapidly where surrounding congrowth of the bacteria.

The utility of increasing the moisture of 25 the air in the room devoted to the prime purpose of ripening cheese has been found, through long experiment by the petitioner,

to be of the highest importance.

The prime object of this invention is to provide a process for the ripening of cheese through the agency of humidified air at certain temperatures supplied to the cheese ripening chamber, the humidified air having on finished ripened cheese. a temperature range and a moisture percentage determined by years of experiment by the petitioner.

Further objects of this invention will apof the process and as set forth in the claim.

It has been determined that unparaffined cheese shrinks in weight very considerably as it is held for the purpose of ripening in a room or chamber set aside for that purpose, due to the contained moisture evaporating through the cheese rind; it is evident therefore, that the air in the room devoted to the ripening of cheese should carry a moisture percentage of near the saturation point. As paramed cheeses are practically sealed they do not ripen as gestive tract, attaching and destroying the rapidly as if they had not been paraffined. In the intestinal tract which rementation requires air for rapid reproduction of the bacteria causing the recently developed and highly advertised same. The evaporation of the moisture conproduct known as package cheese, the Pastained in the cheese should be held to the teurization of the cheese is highly com-

minimum. If cheese is carried in satu-

tain new and useful Improvements in Proc- tures through suitable means to a room set esses for Ripening Cheese, and do hereby acide for the purpose, the humidified air to declare the following to be a full, clear, and have a temperature range of from 45 degrees years of experimenting by the inventor has developed this particular process and group of temperature and humidity percentage

The common practice, process or method for ripening cheese employed in the past and present has been to carry the cheese which are usually paraffined, at a temperature of anywhere from 40 degrees to 80 deditions are moist and certain temperatures grees Fahrenheit, the lower temperature maintained which are most beneficial to the range being maintained through the agency of artificial refrigeration where the temperature of the air is reduced by pipes in the room carrying ammonia gas or carbon diox-80

ide gas or some similar agency.

While this old and common process maintains temperature, the cold pipes attract the moisture in the air, which in turn being dried out, attracts the moisture of the cheese, 95 making the finished product dry and crumbly, in addition causing extra expense

It is admitted that well ripened cheese is more digestible and has a more attractive 90 flavor than the fresh product. The usual means employed in aging cheese, longer pear from the following detailed description time is required to get an approximate result and quite often cheese is spoiled due This process being of much to rind rot. shorter duration eliminates both of the adverse features of dryness and rind rot in the finished product.

This invention provides means for producing cheese in which the lactic bacilli are cultivated to the highest degree. It is well known to science that certain groups of lactic bacilli are the active principals in point. As paraffined cheeses are practically milk which are most beneficial to the di-

esthers or flavor of cheese, leaving the prod-ture percentage of from 36% to 40% may 10 uct with a neutral dead flavor. It is well be made into the finished product as dethe manufacture of the above cooked product. Welsh rarebit, in other words, cooked cheese, has been an article of diet for many 15 years, probably centuries. No one acquainted with Welsh rarebit, would think 95% are extended at the strength of eating it unless hot right off the fire which the origination of eating its becoming cold, stringy and above or below tough, realizing that once in this condition, scribed above.

20 it is highly indigestible.

As an embodiment of this invention, a cheese may be taken having an original ing of supplying, through suitable means, moisture content of 36%. A temperature humidified air to a room or chamber set of from 65° F., to 70° F., may then be aside for the purpose, the humidified air given to this cheese, but in order to obtain to have a range of temperature from 45° to the finished product according to this invention, a humidity percentage of from 85% to 90% is applied, thereby bringing into suitable combination temperatures and humidity percentages. In order to illustrate 40% and subjecting it to a temperature of another embodiment a cheese having a 55° F., to 70° F., in combination with a 65 moisture content of 40% may be taken and given a temperature of from 55° F., to 60° In testimony whereof I affix my signature. another embodiment a cheese having a moisture content of 40% may be taken and given a temperature of from 55° F., to 60° F., and obtain a finished product with the

mended as a step in a forward direction, combination of this temperature and hu- 35 but as a matter of fact, this Pasteurization midity percentage of from 75% to 80%, destroys all bacilli including the lactic ba- while cheese carrying 38% of moisture will cilli, leaving the product with dead organ- produce a finished product with a combi-5 ism in place of active beneficial organisms. nation of a temperature range from 60° Dead organisms are certainly not beneficial F., to 65° F., and a humidity percentage 40 to the digestive tract. Moreover, the heat of from 80% to 85%. It is apparent thereof Pasteurization drives off the attractive fore, that cheese carrying an original moisesthers or flavor of cheese, leaving the prod-ture percentage of from 36% to 40% may known that patents have been allowed on scribed above between the limits of 55° F., 45 to 70° F., in combination with a humidity percentage of from 75% to 90%. The limits of 45° to 75° temperature in combination with humidity percentages of from 65% to 95% are extended to take care of cheese in 50 which the original moisture content is either above or below the moisture content as de-

What I claim is:

1. A process for ripening cheese, consist- 55 75° F., and a moisture percentage of from 60 65% to 95%.

2. A process for ripening cheese having an original moisture percentage of 36% to

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