

THE PEASANT'S PART IN THE RUSSIAN CIVIL DISTURBANCE

THE DISCOVERY OF

pitied. Tolstol and his fellow reformers have done much to convince the

F A FIFTH

visibility. Many observers have claimed to be able to distinguish them with the naked eye. The fifth satellite is only equal in brilliance to a star of the thirteenth magnitude. This is probably the reason why Governor Win-

education exclusive.
With a strange and almost fateful

SATELLITE

with a glass much superior to the one devised by the clever Italian. There is a good deal of mystery attached to the matter. As far as is known, Winthrop was a man of flawless veracity.

Jupiter maintains his position as

TE FOR TH

E PLANET

HANDKERCHIEFS FOR SEAMEN

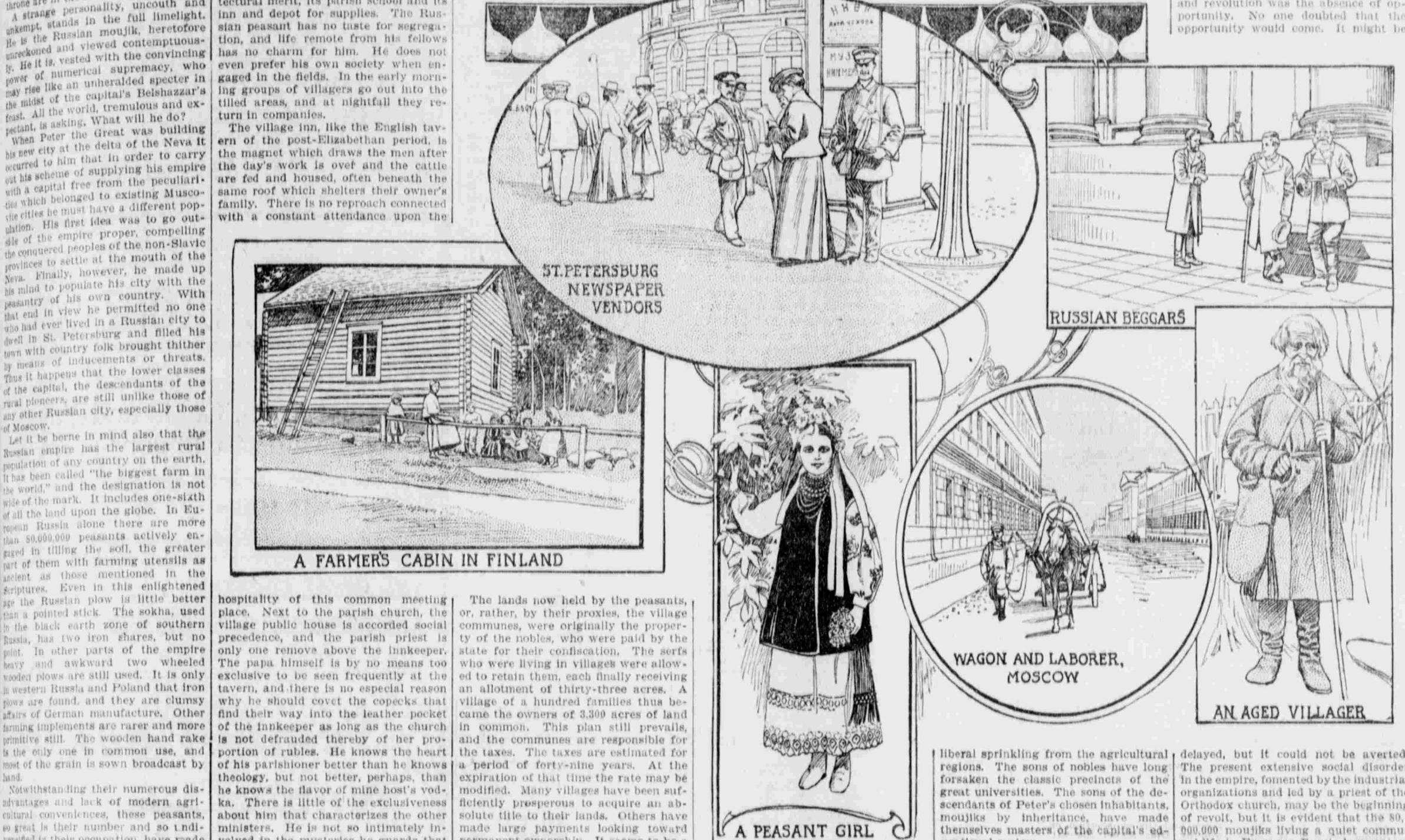
All sailors in the British navy are obliged to buy a black silk handkerchief. They get it from the government stores, and the price, about a dollar, is deducted from their pay. This year the admiralty has ordered 160,000 handkerchiefs from the largest silk manufacturers in the world. This number is 40,000 more than has ever been required before. Each handkerchief is thirty-five inches square.

JUPITER

If this clumsy method cannot be altered the mat should be taken to a place where the evil dust would affect nobody, and every endeavor should be made to localize the cloud of dust. The beating of carpets is another necessary evil which, however, we do not allow in our streets, and yet most probably the dust of the more privileged door mat would show a much more dangerous bacteriological flora than the carpet.

The quickest growing plant in the world is the kudzu, a species of bean. It is said to have been known to grow sixty feet in three months.

The dogs of Portugal are passionately fond of grapes, and sticks are purposely tied to the animals' necks to impede or prevent their entrance to the vineyards in search of the luscious fruit.



A FARMER'S CABIN IN FINLAND

ST. PETERSBURG
NEWSPAPER
VENDORS

RUSSIAN BEGGARS

WAGON AND LABORER.
MOSCOW

AN AGED VILLAGER

A PEASANT GIRL

THE DISCOVERY OF A FIFTH SATELLITE FOR THE PLANET JUPITER



PROFESSOR C. D. PER

The four satellites which were discovered by Galileo with a glass which could not have been much more powerful than a modern fieldglass are equal in brilliance to stars of the sixth magnitude. They are situated in the debatable land between visibility and in-

A detailed black and white illustration of the Great Lick Telescope. The telescope is a long, cylindrical tube angled upwards from the bottom left towards the top right. It is mounted on a complex mechanical base. A prominent spiral staircase winds around the right side of the base structure. The entire scene is enclosed within a decorative border. In the top left corner, there is a small inset box containing a stylized 'L' and some other markings.

at the center, The planet's color is the faintest rose.

It is the present belief of science that Jupiter is in no condition to support life as it is known on earth. Although the earth's senior by innumerable years, he is believed to be in a fluid condition, his very hot at the center. Jupiter's satellites are so small comparatively that they have had abundance of time to cool off. For aught that is known they may be admirably adapted to sustain life. Unless their present facilities are expanded greatly neither Harvard nor Lick will be able to enlighten mankind on that point.

The satellites discovered by the great Galileo, the first fruits of telescopic observation, have played a far more important part in the study of astronomy than any other group of celestial bodies. Saturn or Mars. The fifth and sixth are so tiny in comparison that they are destined to be regarded by future astronomers as being more interesting than important. The first four—namely, Europa, Ganymede and Callisto—are so large and so well defined that they are of immense use to the practical astronomer as fixed points from which to make calculations involving distance and direction. The first, second and third are so close to the face of the moon that much lighter than the moon.

Ganymede, has a diameter and weight about one and a half times those of the moon, with three times her bulk.

These moons of Jupiter are also useful in determining longitude. Their eclipses are calculated at Greenwich, and the times are recorded in the British Nautical Almanac. The greatest services rendered to man by Jupiter's moons, however, is that their eclipses and variations in time first suggested the velocity of light. Roemer, the Danish astronomer, in 1675 suggested that light requires a definite time to travel a prescribed distance. His suggestion was too radical for the age, and he was promptly frowned upon, but time vindicated him triumphantly.

Mars. It has been suggested that these asteroids are the fragments of some great planet which exploded during the early days of the solar system. It is not without the realm of possibility that the new Perrine satellite, moving in so remote an orbit, is a stray asteroid which has actually come within the influence of the planet.

It is gratifying that some of the wonderful things predicted of the observatory on Mount Hamilton have come to pass. Although it is the most recent of the great astronomical stations, it has already accomplished enough to make it famous for all ages to come.

CHESTER WOODBURY.

DOWN WITH DOOR MATS!

The mat at the front door is necessarily the receptacle of all kinds of filth picked up from the streets. In dry weather this is little use for the mat, but in wet weather all cleanly disposed persons use it. The time comes when the mat is loaded with dirt in a more or less dried state, and the simplest way of removing the burden of dirt is to submit the mat to shaking, generally on the curbstone or to bring it into sharp contact with a wall.

This is the modus operandi generally adopted, much to the annoyance and discomfort of the passerby. Frequently the dirt is blown into the eyes of the asked, and that this can be a source of ill health cannot be disputed. The street door mat must meet with potentialities for evil, having regard to its purpose.

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