THE

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CANADIAN FARMERS AND MECHANICS'

ALMANAC

FOR

1847,

BEING THE THIRD AFTER LEAP YEAR.



CONTAINING DISCRIPTIONS, ILLUSTRATED WITH BEAUTIFUL AND CORRECT DRAWINGS, OF A NUMBER OF THE MOST APP 10.

VED FARMING IMPLEMENTS, BUILDINGS, CATTLE,

&C. &C. TOGETHER WITH A VARIETY OF

OTHER USEFUL AND INTERESTING MATTER.



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ECLIPSES FOR 1847.

and 7 minutes, P. M., and will be visi- Territories to the Pacific Ocean.

II. There will be a total eclipse of the sun, April 15th, at 1h. and 12m. morning. The path of the total phase will pass curvilineally, first north of east. then south of east, over the southern part of Africa and the Indian Ocean.

III. The moon will be partly eclipsed Sept. 24th, at 9h. and 16m. morn., visible in the eastern part of Asia and Pacific Ocean.

IV. An annular eclipse of the sun will be visible through the interior of Europe and Asia, on the 9th day of October, at 3h. 57m. morning.

SIGNS OF THE ZODIAC.

| g | Head and face. | | Reins. |
|------|----------------|---|----------|
| 8 | Neck. | | Secrets. |
| П | Arms. | 1 | Thighs |
| 50 | Breast. | | Knees. |
| 5. | Heart. | | Legs. |
| 1977 | Bowels. | | Feet. |

CHRONOLOGICAL CYCLES.

| Dominical Letter, | C |
|-------------------|------|
| Golden Number, | 5 |
| Solar Sycle, | 8 |
| Epact, | 41 |
| Roman Indiction, | 5 |
| Julian Period, | 6560 |

EQUINOXES AND SOLTICES.

2nd, when at 9h. and 54m. morn., it common years, and retaining the leap will be in inferior conjunction with the year at the close of each fourth century sun, the planet's right ascension at that only. This, at that time, was esteemed time, 12h. 33m. 25u 3., and its declina-as exactly conformable to the true solar tion 110 31m 36s. S., then morning star year. But since that time, the true soto the end of the year.

about the 260 of (II,) Gemina, and low-which in 50 centuries will make anest about the 260 of (1,) Saggittarus. lother day's variation.

The sun and moon rise and set at the same moment by the clock or Al-There will be four eclipses during manac, on a line running due east and the present year; two of the sun, and west. Thus: If on any day, the sun the present year; two of the sun, and west. Thus: If on any day, the sun two of the moon; none of which will or moon rises at Boston, at 20 minutes be visible on the Continent of America. past 6 o'ciock, it rises at 20 minutes past 6 o'ciock, it rises at 20 minutes on the 31st day of March, at 4 o'clock ward, or throughout the States and

MOVEABLE FEASTS

F

N

| | T 77770 T C 0 | |
|------------------|---------------|----|
| Easter Sunday, | April | 4 |
| Rogation Sunday, | May | 9 |
| Ascension Day, | May | 13 |
| Whit Sunday, | May | 23 |
| Trinity Sunday, | May | 30 |
| Advent Sunday, | November | 28 |

OLD STYLE AND NEW STYLE.

Pore Gregory XIII, made a reformation of the Calender. The Julian Calendar (or Oid Style) had, before that time, been in general use all over Europe. The year, according to the Julian Calendar, consists of 365 days and 6 hours, which 6 hours being 1.4 part of a day, the common years consisted of 365 days: and every fourth year one day was added to the month of February, which made each of these years consist of 366 days, commonly called leap years.

This computation (though near the truth) is more than the Solar year by 11 minutes and 3 seconds, which in 131 years amount to a whole day; by which the vernal equinox was anticipated ten days from the time of the general council of Nice, held in the year 325 of the Chris tian era, to the time of Pope Gregory, who therefore caused 10 days to be taken out of the month of Oct., 1582, to make the equinox fall on the 21st of March, as it did at the time of that coun-Vernal Equinox, Mar. 20, Oh. 12m. A.M. cil, and to prevent the like variation for Sum'r Solstice, June 20, 9h. 10m. P.M. the future, he ordered that 3 days should Aut. Equinox, Sept. 22, 11h. 24m. A.M. be abated in every 400 years, by reduc-Winter Solstice, Dec. 21, 6h. 52m. P.M. ing the leap year at the close of each Venus will be evening star until Oct. century, for three successive centuries to lar year is found to consist of 365 days, The Moon will run highest this year 5 hours, 48 minutes, and 49 seconds,

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nys,

| 18 | 47 | FIRST MONTH. | JA | N | JA | R | | | | 3 | 1 1 | PAC | s. |
|----------------------|--------------------|---|-------------------------------|------|----|----------------------|---|------|-------------|------------|--------------------------------------|-----|---------|
| | M | OON'S PHASES. | | S | U | NO | N | M | ER | IDI | AN | 1. | |
| Last New First | Mod Qua v Mo | on, 1d 9h 33m morn arter, 9d 1h 31m even on, 16d 7h 35m even arter 23d 11h 8m morn | 1d 9d 16d 23d 31d | | | Oh Oh Oh Oh | | 4 | m m m | | 44s 47s ever 24s 25s 58s | | |
| M | W | Celestial Phenomena, Aspects, &c. | De | ocl. | | ses | | ets. | | th. | (1) p. | | D S. |
| 1 F | ri. | Moon in Perigee. | 22 | 57 | 7 | 33 | 4 | 27 | mo | rn. | 69 | ris | es. |
| | Sat. | | 22 | 51 | | 32 | | 28 | | 18 | | 6 | 24 |
| | C | Snow may be expected | 22 | 45 | 7 | 31 | 4 | 29 | 2 | 8 | - | 7 | 26 |
| 4 1 | Mo. | | 22 | 39 | 7 | 30 | ŧ | 30 | 2 | 52 | | 8 | 22 |
| 57 | ru. | 24 south 9h 22 eve. | 22 | 32 | 7 | 29 | 4 | 31 | 3 | 35 | m | 9 | 20 |
| | We. | | 22 | 25 | | 28 | 4 | 32 | 4 | 17 | | 10 | 16 |
| 77 | Th. | Clear and cold. | 22 | 17 | 7 | 27 | | 33 | 4 | 5 9 | | 11 | 10 |
| 8 F | Fri. | DS | 22 | | 7 | 26 | | 34 | | 42 | | m | orn |
| 98 | Sat. | | 22 | _ | 7 | 25 | | - | #. | 26 | | 1 | 4 |
| 10 | C | Mild and pleasant. | | 51 | 1 | 24 | | 36 | | 13 | m | 3 | 3 |
| 11 | Mo. | | 21 | 42 | 1 | 23 | - | 37 | | , 2 | | 3 | 4 |
| 127 | Γu. | Aldebaran south, 9h 2m | 21 | 32 | 7 | 22 | | 38 | 8 | 53 | 2 | 4 | 4 |
| 13 | We. | [eve. | | 21 | 7 | 21 | | 39 | | 48 | | 5 | 1 |
| 14 | Γh. | Snow with occasional | | 11 | | 20 | | 40 | | | 13 | 5 | 53 |
| 15 H | | rains. | | 59 | | 20 | - | 40 | | | | 6 | 47 |
| 16 | Sat. | Remarkably fine | | 48 | | 19 | | 41 | 1 | en. | ~~ | Se | ets. |
| | C | and pleasant for | | 36 | | - | | 42 | 1 | 44 | | 5 | 50 |
| 18 | | the season. | 1 | 24 | 1. | | | 43 | 1 | | X | 7 | 9 |
| 19 | | | 20 | 11 | 1 | 16 | 1 | 44 | | 38 | 1 | 18 | 20 |
| 20 | We. | Capella south, 8h. 53m. | | 58 | | | 1 | 45 | 1 | 32 | | 9 | 30 |
| | Th. | [eve. | 19 | 44 | | | | 45 | 1 | 25 | 1 | 10 | 39 |
| | Fri. | | 19 | 30 | | 14 | - | 46 | 1 | 17 | 1 - | 11 | 47 |
| 23 | Sat. | ♥ in Aphelon. | 19 | 16 | 1 | 13 | 1 | 47 | | 9 | | 1 | orn |
| 24 | C | | 19 | | 7 | 12 | | 48 | | 2 | 1 | 0 | 55 |
| | Mo. | | 18 | 47 | 7 | 11 | 4 | 49 | 7 | 54 | П | | 1 |
| | Tu. | More snow. | | | | | | | | | | 3 | 5 |
| | We. | | | | | 9 | | | | | | 1 - | 3 |
| | Th. | Windy | 18 | 0 | 7 | 8 | 4 | 52 | 11 | 27 | | 4 | 53 |
| | Fri. | Cloudy and damp. | 17 | 44 | 17 | 7 | 4 | 53 | 311 | 1 10 | 18 | | 6 |
| 30 | Sat. | | 17 | 27 | 7 | 6 | 4 | 54 | m | orn. | - | 5 | 54 |
| 31 | C | 21 stationary. | 17 | 11 | 17 | 4 | 4 | 56 | 0 | 48 | 3 | ri | ses |

Fenelon was accustomed to say, my country: for I am more a Fench. I love my family better than my man than a Fenelon; and more a self; my country better than my man than a Frenchman.—Tatler.

| 1 | 84 | SECOND MONTH. | F | EBI | RUA | RY. | 2 | 28 D. | AYS | • |
|--------------|---------------------|--|----------------|---------------------|---|----------------------|----------------|-------------------|------|----------------------|
| T | M | IOON'S PHASES. | 1 | S | UN (| ON I | MEI | RIDIA | N. | |
| Ne | w M | parter, 8d Sh 29m morn soon, 15d 6h 17m morn warter, 21d 10h 5m even | 1 | 9d 5d 1d | 0h 0h 0h | 1 | 4m 5m 3m | 37 30 25 | s | |
| M | W | Celestial Phenomena, Aspects, &c. | | ecl. | rises | sets | | | D. B | (9) 2. S. |
| 2 | Mo. Tu. We. | Regil south, 7h16m even. | | | 7 2 | 4 57 4 58 4 58 | 2 | 14 | | 6 22 7 25 8 38 |
| 4 5 | Th. Fri. Sat. | Warmer. o in greatest latitude [south.] | 16 15 | 0 42 | 6 59 6 58 | 5 1 5 2 | 3 | 42 22 | 1 | $9 \ 40 \ 0 \ 42$ |
| 7. | | 24 south, 6h 6m even. Cold winds with | 15 | 5 46 | 5 56 6 55 | 5 4 5 5 | 5 6 | 53 | n | norn 44 1 44 |
| 10 | We. Th. Fri. | occasional snows. | | 7 | 6 52 6 51 | 5 8 5 9 | 8 | 28 25 V | 9 | 2 42 3 39 4 35 |
| 13 14 | Sat. | Quite moderate with signs of rain. | 13 | 46 | 6 48 6 47 | 5 12 5 13 | 11 eve | 22 | 2 | 5 30 6 25 sets |
| 17 | Tu. We. Th. | warm and fine. | 12 11 11 | 5 (44 (22 (| 6 44 6 43 | 5 16 5 17 | 1 2 | 18 13 8 | | 6 34 7 45 8 50 |
| | Fri. Sat. | Dog star south, 8h 21m | 11 10 | 1 6 39 6 18 6 | | 5 20 5 22 | 44 | 4 γ 58 49 Π | 11 | 9 59 |
| 23 | Mo. Tu. We. | Remarkably fine wea- | | 56 6 34 6 | 35 35 34 3 3 33 33 | 5 25 5 26 | 6 | 42 34 5 23 | 1 | 13 14 |
| 26 1 27 3 | Th. Fri. Sat. | 21 south, 6h 0m even. A good fall of snow may | 8 | $\frac{496}{276}$ | 31 30 30 30 30 30 30 30 30 30 30 30 30 30 | 5 29 5 30 | 9 | 12 2 48 | 3 | 10 |
| 28 | C | now be looked for. | | | 26 | | | 30 m | | 400 |

It must ever be borne in mind that man's love, even in its happiest exercise, is not like woman's; for forgotten through the greater part while she employs herself through of every day; to make up her mind to be every hour in fondly weaving one belowed image into all her thoughts, he attentions, though not in his love; gives to her comparatively few of his; and among these I would mention and of these, perhaps neither the one whose claims it is folly to dis-

| 1 | 84 | THIRD MONT | H. | M | A | RC | Н | | | - | 31 | DAY | rs. |
|----------------|---------------------|---|-------------|---------------------------------|--------|------------------|--------|----------------|-------------------------------|-----------------|----------------------|-------------------|-----------------|
| La No Fi | all Moast Q ew M | uarter, 9d 11h 29m even. Ioon, 16d 4h 1m even. warter, 23d 0h 41m even. | 1 2 | 8 1d 9d 6d 3d 3d | U | N 0 | h h | | 1ER 12m 10m 8m 6m | | 35 43 45 38 |)8 38 58 | |
| M | W | Celestral Phenomena, Aspects, &c. | | ecl. | | © ses | | © sets | st | ூ 'h . | (P. | R. | g S. |
| 2 3 | Mo. Tu. We. | Quite moderate with indications of rain. | 7 6 6 | 19 56 33 | 6 | 24 23 22 | 5 | 36 37 38 | 1 | orn 55 38 | | ris 6 | ses 40 43 |
| 5 6 | Th. Fri. Sat. | (9) in Ω Mild and damp. | 6 5 5 | 10 47 23 | 6 | 20 19 18 | 5 5 5 | 40 | 3 3 | 20 4 50 | m | 8 9 | 46 50 53 |
| .9 | Mo. Tu. We. | Castor s'th, 7h 12m even. A protracted storm of | | 0 27 13 | 6 | 17 15 14 | 5 5 | 43 44 46 | 4 5 6 | 38 25 18 | 1 | 11 mo | 53 rn 50 |
| 11 12 | Th. Fri. Sat | Cold, windy, and disa- | 3 3 | 50 26 3 | 6 | 13 11 10 | 5 | 47 49 50 | 7 8 9 | 11 8 3 | V3 | 1 2 3 | 50 44 30 |
| 14 15 | C. Mo. Tu | greeable we ather. | 2 1 1 | 39 15 52 28 | 6 | 8 7 5 | 5 | 52 53 55 | 11 | 59 57 54 | \aleph | | 10 50 28 |
| 17 18 | W. | D in S Now look for a thaw. | 1 0 | | 6 | 4 3 2 1 | 5 5 | 57 58 59 | eve | 50 46 41 | 8 | se 6 7 9 | 56 59 3 |
| 21 22 | Sat. C Mo. | n enters γ at 1h 24 m morn. | .4124 | 6 30 53 | 6 5 | - 1 | 6 | 1 2 | 3 4 5 | 37 32 26 | П | 10 11 11 | 6 3 59 |
| 24 25 | Th. | Continued pleasent wea- ther. with occasional rain | 1 1 2 | | 5 5 | 57 56 54 | 6 | 3 4 6 | 6 7 7 | 19 9 57 | 50 | mo | |
| 27 28 | Fri. Sat. | 5 rises 5h 52m. morn. | 3 | 51 14 | 5 5 | 50 | 6 | 7 8 10 | 9 10 | 46 27 12 | | 3 4 | 30 |
| 30 | Mo. Tu. We. | Regulus south, 9 h 25m even. | | 38 1 24 | 5 | 46 | 6 | 14 | 10 11 mo | 37 | 4 | 6 ris | 20 ses |

S.

pute, since no remonstrances or rep-ing interest some wives are weak resentations on her part will ever be enough to evince a sort of childish able to render less attractive the jealousy, when they ought rather to charms of this competitor. I mean congrulate themselves that their the newspaper, of whose absorb-most formidable rival is one of paper.

| 1 | 847 | FOURTH MONT | н. | A | P | RIL | | - | - | 30 | D _A | YS. |
|----|--------|--------------------------|-----|-----|----|-----|-------|-----|-----|-----|----------------|----------|
| | B | IOON'S PHASES. | 1 | 8 | U | NC | NI | IEF | RID | IA | N. | |
| La | st Qu | arter, 8d 10h 17m morn. | 1 8 | 8d | | Oh | | 1m | | 4 | | |
| | ew M | 7 | 1 | 5d | | 11h | | 59m | | | os Os | |
| FI | rst Q | uarter, 22d 4h Om morn. | | 2d | | 11h | - | 58m | | | 98 | |
| FU | ıll Me | | 30 | Od_ | | 11h | | 56m | 1 | 5 | | 4 |
| M | W | Celestial Phenomena, | 1 | 5 | 16 | 0 1 | 0 | 1 6 | 7 | 13 | 1 6 | 9 |
| _ | | Aspects, &c. | De, | | | | seis. | | th | | | S. |
| 1 | Th. | | 4 | 47 | 5 | 43 | 6.17 | 1 | 8 | - | 7 | 06 |
| 2 | Fri. | Spica south, 0h 29m morn | 5 | 10 | | 42 | | 1 | 46 | | 8 | 26 33 |
| 3 | Sat. | | 5 | 33 | | 41 | | 2 | 34 | M | 9 | 37 |
| 4 | C | A rain storm may be | | 56 | | 39 | | 3 | 22 | 1 | 10 | 37 |
| | Mo. | expected. | | 19 | | 38 | | 4 | 13 | + | 11 | 32 |
| | Tu. | • | 6 | 42 | | 37 | | 5 | 6 | 18 | mo | |
| | We. | 24 sets, 11h 14m even. | 7 | 4 | | 35 | | 5 | 59 | 13 | 1110 | 23 |
| | Th. | | 7 | 26 | | 34 | 6 26 | 6 | 54 | | 1 | 10 |
| - | Fri. | ර ර ② and 60 18s. | 7 | 49 | | 32 | | 7 | 48 | *** | i | 58 |
| | Sat. | | 8 | 11 | 5 | 31 | | 8 | 43 | ~~ | 2 | 46 |
| 11 | C | Showers. | 8 | 33 | | 30 | | 9 | 36 | + | | 41 |
| | Mo. | | 8 | 55 | 5 | 28 | 6 32 | | 32 | 1 | 4 | 36 |
| - | Tu. | | 9 | 16 | | | | | 28 | g | 5 | 10 |
| | We. | | 9 | 38 | 5 | 25 | 6 35 | | | | 5 | 48 |
| | Th. | | 9 | 59 | 5 | 23 | 3 37 | | 24 | 2 | - | ts |
| | Fri | eclipsed, invisible. | 10 | 21 | 5 | 22 | | 1 | 22 | 1 | 7 | 46 |
| | Sat. | | 10 | 42 | 5 | 20 | 6 40 | 2 | 17 | П | 8 | 51 |
| - | C. | | 11 | 3 | | 19 | | 3 | 14 | | 9 | 52 |
| - | Mo. | Clear and cool. | 11 | 23 | | 18 | | 4 | 8 | 59 | 10 | 54 |
| | Tu. | | 11 | 44 | | 17 | | 5 | 1 | | 11 | 50 |
| - | We. | | 12 | | 5 | 15 | | 5 | 52 | Si | mo | orn |
| | Th. | Q & 24 and 10 56 north. | 12 | 24 | - | 14 | | 6 | 39 | | | 40 |
| | Fri. | 4 | 12 | 44 | | 12 | | 7 | 24 | | 1 | 26 |
| | Sat. | t rises 1h 4m morn. | 13 | | 5 | 11 | | 8 | 8 | m | 2 | 11 |
| | Mo. | Dlaggant av 1 | 13 | 24 | | 10 | | 8 | 50 | | 2 | 56 |
| | Tu. | Pleasant and warm with | 13 | 43 | 1 | 8 | | 9 | 33 | | 3 | 30 |
| | We. | occasional showers. | | | 5 | 7 | | | 15 | | 4 | 10 |
| - | Th. | A moderna court and | 14 | | | 6 | | 10 | 58 | | 4 | 51 |
| 1 | Fri. | Arectus south, 11h 40m | | 39 | | 5 | | | 43 | | 5 | 33 |
| 30 | L'II. | [even. | 114 | 56 | 5 | 3 | 6 57 | mo | rn. | } | ris | ses |

THINGS THAT DO NOT LOOK WELL. It does not look well to keep the We find the following in the Praishorse in the stable not cleaned, till rie Farmer, a backwoods newspaper. his hind feet are 45 degrees higher It does not look well for a man to than his fore feet, so that he is obligthump and abuse his horse or oxen, led to rear up to get himself on a just to try his whip; or to suffer level, every time he wishes to swalhis boys to do so.

| 1 | 84 | FIFTH MONT | H. | M | A | Y. | | | | 3 | 1 I | PAY | s. |
|-----|-------------|--------------------------|----------|-------|----|----------|-----|----------|-----|----------|-----|-----|----------|
| - | 1 | MOON'S PHASES. | 1 | S | U | N C | N | M | ER | ED | A | ٧. | |
| L | ast Q | uarter, 7d 5h 40m even. | 1 7 | 7d | | 111 | - | | 6m | | 16 | | |
| N | ew M | oon, 14d 10h 18m morn. | 14 | | | 111 | | _ | 6m | | 12 | | 1 |
| | | uarter,21d 8h 47m even. | | ld | | 111 | | | 6m | | 59 | | |
| - | all Mo | | 1 20 | - Ju | | EEL | - | | | | | | == |
| M | W | Celestral Phenomena, | | 0 | 4. | 0 | | 2 | . 6 | | 9 | R. | |
| | | Aspects, &c. | De | cl. | ri | ses | sei | 3. | st | n | р. | Pt. | 5. |
| 1 | Sat. | व १ स | 15 | 16 | 5 | 2 | 6 | 58 | 1 | 19 | 1 | 8 | 1 |
| 2 | | \$ 0 %r | 15 | 34 | 1 | 1 | | 59 | | 10 | | 9 | 3 |
| | Mo. | Antarus south, 2h 37m | - | 51 | | | 7 | 0 | 3 | 2 | | 10 | 4 |
| | Tu. | [morn. | | | 4 | | | 1 | 5 | 57 | 13 | 10 | 59 |
| 5 | We. | 2 Perherion. | 16 | 26 | | 58 | | 2 | 4 | 49 | | 11 | 56 |
| 6 | Th. | | 16 | 42 | | 56 | | 4 | 5 | | *** | mo | |
| | Fri. | Thunder and Lightning | 16 | 59 | 1 | 55 | | 5 | 6 | 36 | | , | 41 |
| | Sat. | | 17 | 15 | 1 | | | 6 | 7 | 29 | - | 1 2 | 22 |
| 9 | C | Coutinued rain for se- | | 31 47 | | 53 51 | | 9 | 8 | 22 15 | | 2 | 52 |
| | Mo. | veral days. | 17 | 2 | | | | 10 | 10 | 9 | | 3 | 36 |
| | Tu. | | 118 | 17 | | 49 | | 11 | 11 | 4 | | 4 | 19 |
| | We. | 現 0 1 | 18 | 32 | 1 | 48 | 1 | 12 | - | 59 | 0 | 4 | 57 |
| | Th. Fri. | & south, 6h 27m morn. | 18 | 46 | | | | 13 | | - | п | _ | ts |
| | Sat. | o south, on zom morn. | 19 | - | 4 | 46 | 1 | 14 | | 58 | - | 8 | 28 |
| 16 | - | 24 8 0 | 19 | 14 | | 45 | - | 15 | 1 | 54 | 50 | 9 | 34 |
| | Mo. | Pleasant. | - | 28 | 4 | 44 | 7 | 16 | 2 | 49 | | 10 | 39 |
| | Tu | Spica south 9h35m even. | 19 | 41 | | 43 | | 17 | 3 | 41 | | 11 | - |
| | W. | | 19 | _ | 1 | 42 | | 18 | 3 | 32 | N | mo | |
| 20 | T. | 8 6 5 7h 8m even. | 20 | | 4 | | | 19 | 5 | 18 | | | 34 |
| | Fri. | | 20 | 19 | | 41 | | 19 | 6 | | 吸 | | 24 |
| | Sat. | Warm and Pleasant. | 20 | 30 | | 40 | - | 20 | 6 | 47 | | 2 2 | 10 55 |
| 23 | | | 20 | 42 | | 39 | | 21 | 7 8 | 30 | - | | |
| | Mo. | (in & | 20 | 53 | | 38 | | 22 23 | 8 | 58 | - | 4 | 2 |
| | Tu. | Look out for a cold | 21 | | | 37 36 | | 24 | 9 | | m | 4 | 10 |
| | We. | and continued rain. | 21 21 | | | 35 | | | 10 | | | - | 10 |
| | Th. | Windy and cool. | 21 | 34 | | 34 | | 26 | | 13 | | | 35 |
| | Fri. | Williay and cool. | 21 | 43 | | 33 | | 27 | mo | | | ris | |
| - 1 | Sat. | Vegu south, 2h 1m morn. | 21 | 52 | | | | 27 | | 56 | | | 20 |
| | Mo. | v ega south, an in morns | 22 | | 4 | - | | 28 | 1 | 1 | 1/3 | 9 | 18 |
| 31 | 1410. | | | 1' | - | - | 1 | | 1 | | -do | | |

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It does not look well to have a so slip around into the garden.

gate without hinges, held up in the lt does not look well to have the gateway by a prop in a "slantindi-woman hang out the clothes on cular" position, having at the bottom rough and thorny bushes, and tear an aperture through which some hog them in getting them off, when a with a convenient nose can rub, and neat line would save that trouble.

| 1 | 184 | 7 Sixth Mont | H. | JĮ | JI | VE. | - | | Adlesia | 1 | 30 | DA | YS. |
|-----|------------|--------------------------------------|----------|----------------------|----|------------------------|-----|----------|------------------------|----------|-------|------|----------|
| _ | | MOON'S PHASES. | 1 | 8 | BU | IN | 01 | 1 N | ME | RID | IA | N. | |
| N | ew M | uarter, 20d 2h 23m even. | 1 2 | 5d 2d 0d 8d | | 01 01 111 111 | 1 1 | TN. | 1n 0n 58n 57n | n n | 5 3 5 | 7s 6 | ven |
| M | W | Celestial Phenomena, Aspects, &c. | | ocl. | ri | © ises | | Ois. | | ③ 'th | (P) | | g S. |
| | Tu. | Frequent Showers. | 22 | 8 | 4 | 31 | 7 | 29 | 2 | 45 | 13 | 10 | 14 |
| | We. | | 22 | 16 | 4 | 31 | 7 | 29 | | | *** | | 4 |
| | Th. | Antares south, 11h 33m | 22 | 23 | 4 | 30 | 7 | 30 | 1 | | ~~~ | 11 | 51 |
| | Fri. | [even. | 22 | 30 | 1 | 30 | 7 | 30 | 5 | 26 | * | | orn |
| 101 | Sat. | | 22 | 37 | - | 29 | 7 | 31 | 6 | 18 | - | | 41 |
| 6 | - | 800 | 22 | 43 | - | 29 | | 31 | 7 | 10 | n | 1 | 36 |
| | Mo. Tu. | Warm and fine with | - | 49 | - | 28 | - | 32 | 8 | 2 | | 2 | 20 |
| | We. | occasional showers. | 22 | 54 | _ | 28 | 7 | 32 | 8 | 57 | 8 | 3 | 0 |
| | Th. | 2 -1 21 22 | 22 | 59 | | | 7 | 33 | 9 | 46 | | 3 | 43 |
| | Fri. | o sets, 8h 29m even. | 53 | 4 | - | | 7 | 33 | - | 45 | П | 4 | 23 |
| | Sat. | 24 4 2 140 24 | 23 | 8 | _ | 26 | | 34 | | 40 | | 4 | 58 |
| 13 | C | 24 d @ and 40 31 north. | 23 | 12 | | 26 | - | | eve | | | se | ts |
| | Mo. | A fall of not | 23 | 15 | | 26 | - | 34 | | 36 | 59 | 8 | 59 |
| 100 | Tu. | A fall of rain may be | | 18 | | 26 | | 34 | 1 | 30 | | 9 | 29 |
| | We. | expected. | 23 | 20 | | 26 | | 34 | 2 | | Si | 10 | 18 |
| 100 | Th. | THE REPORT OF THE PARTY | 23 23 | 23 | | 25 | | 35 | 3 | 10 | | 11 | 22 |
| | Fri | Cool, clear and pleasant. | 23 | 24 | | 25 | 79" | 35 | 3 | 58 | my | 11 | 46 |
| - 1 | Sat. | ossi, cicai and pleasant. | 23 | 25 | | 25 | | 35 | 4 | 41 | | mo | |
| 7 | C. | enters & 9h 10m ev. | | 26 27 | 4 | 25 | | 35 | | 24 | | | 26 |
| 21 | Mo. | (9 8) | 23 | 1 | 4 | 24 | | 36 36 | 6 | | -^- | 1 | 6 |
| 22 | Tu. | | 23 | 26 | | 24 | 300 | 36 | 6 | 50 | | 1 | 44 |
| 23 | We. | Cool wind with indi- | 23 | 26 | - | 25 | | 35 | 8 | | 111 | 2 | 13 |
| 24 | Th. | cations of rain. | | 25 | | 25 | | 35 | 9 | 17 | | 2 | 51 |
| 25 | Fri. | | 23 | 23 | | 25 | | 35 | 9 | 4 55 | | 3 | 28 |
| 26 | Sat. | | 23 | | 4 | 26 | | 34 | 1000 | 46 | 1 | 4 | 5 |
| | C | | 23 | 18 | | 26 | | _ | 11 | - | 100 | 4 | 40 |
| 18 | Mo. | | 23 | 16 | | 27 | | | mo | 40 | 13 | 5 | 12 |
| | Tu. | Hot sultry weather may | 23 | 12 | | 27 | | 33 | 1 | | | ris | - 17/1 |
| 30 | We. | now ae expected. | 23 | 9 | | 28/7 | | 32 | 2 | 32 28 | W | 8 | 27 17 |

It does not look well for anybody's. It does not look well for farmers' daughters to walk the streets in kid daughters to be always talking about slippers in Dec., and lace them piano playing and the trilling of Sigselves so cruelly, that their voices nor Cantanini, while they do not waste away and their cheeks turn know of what butter is made, and preto the colour of moonlight.

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Knowledge is not a couch whereupon sproud mind to raise itself upon; or a to rest a searching and restless spirit; fort or commanding ground for strife or a terrace for a wandering and varia-sand contention; or a shop for profit or ble mind to walk up and down with a sale; but a rich store-house for the glory fair prospect; or a tower of state for a of the Creator and relief of man's estate.

| 1 | 847 | Еідити Монти. | 1 | LU | GI | JST | r. | | | 3 | 11 | DAY | 3. | | |
|-----|-------------|--|----------|----------|----|----------|----|----------|-----------|----------|-----------|-----|----------|--|--|
| | | OON'S PHASES. | | | U | | | | MERIDIAN. | | | | | | |
| | | narter, 3d 6h 50m morn. | 10 | d | | 11h | | | 4m 5m | | 15 | 8 | | | |
| | ew M | oon, 10d 7h 19m even. uarter,19d 0h 52m morn. | 19 | | | 11h | | | 6m | | 46 | | | | |
| | ill Mo | | 26 | | | 11h | | | 8m | | 33 | | | | |
| M | W | Celestial Phenomena., | 6 |) | | 0 | | 9 | C |) | (1) | (| 0 | | |
| IMI | ~~ | Aspects, &c. | De | cl. | ri | ses | 80 | ets | s't | h. | p. | R. | S. | | |
| 1 | C | | 17 | 52 | 4 | 53 | 7 | 7 | 4 | 48 | m | | 35 | | |
| 2 | | Mild with indications | | 37 | | 54 | | 6 | 5 | 41 | 8 | | 20 | | |
| | Tu. | of rain. | 17 | 21 | | 55 | | 5 | 6 | 34 | | 1 | 58 | | |
| | We. | 7 coult 11 70 | 17 | | 4 | 56 | - | 4 | 7 | 28 | П | mo | | | |
| | Th. Fri. | 5 south, 1h 58m morn. | 16 16 | 49 32 | - | 57 58 | 7 | 3 2 | 8 | 22 15 | 69 | 1 | 48 40 | | |
| | Sat. | Warm and sultry with | | 16 | 1 | 90 | 7 | 2 | 10 | 7 | 9 | 2 | | | |
| 8 | C | occasional showers. | 15 | 59 | | 1 | 6 | 59 | 10 | 56 | - | 3 | 29 | | |
| | Mo. | occasional showers. | 15 | 41 | | 2 | - | 58 | | 45 | n | 4 | 27 | | |
| | Tu. | | 15 | 24 | | | 6 | | eve | | 00 | | ts | | |
| 11 | We. | ð south, 4h 49m morn. | 15 | | 5 | | | 56 | | | m | | 40 | | |
| 12 | Th. | | 14 | 48 | 5 | | 6 | 55 | 1 | 16 | | 8 | 13 | | |
| | Fri- | 2 9 0 | 14 | 29 | 5 | | | 54 | 1 | 59 | | 8 | 43 | | |
| | Sat. | | 14 | 11 | | | | 53 | 2 | 40 | 202 | 9 | 13 | | |
| | C | Very warm. | | 52 | | 8 | | 52 | 3 | 23 | | 9 | 38 | | |
| | Mo. | | 13 | 33 | | | | 50 | 4 | 6 | M | 10 | 8 | | |
| | Tu. | Farmalhaut south, 1h 1m | | 14 | | 11 | - | 49 | 4 | 50 | | 10 | 43 | | |
| | We. | | 12 | 54 | 1 | 13 | | 47 | 5 | 36 | | 11 | 13 | | |
| | Th. Fii. | Cooler for a few days. | | | | 14 | - | 46 | 6 | 24 15 | 1 | mo | | | |
| | Sat. | A couth th Dem | 12 11 | 15 55 | | 16 | - | 44 43 | 8 | 7 | 140 | 1 | 3 5 | | |
| 22 | | & south, 4h 26m morn. | 11 | 36 | - | 18 | - | 42 | 9 | 3 | VS | 2 | 10 | | |
| | Mo. | Appearances indicate | | 14 | | 19 | | 41 | 9 | 59 | ~~ | 3 | 16 | | |
| | Tu. | rain. | | 54 | | 20 | | 40 | | 56 | *** | 4 | 25 | | |
| | We. | b & and 40 42 south. | | | | | | 38 | | | \approx | | 34 | | |
| | Th. | . o o ma zo zo boutin | 10 | 12 | | | | 37 | | rn. | 1 | ris | ses | | |
| 27 | Fri. | | 9 | | | 25 | | 35 | 1 | 44 | go | 7 | 7 | | |
| | Sat. | o at greatest brillancy. | 9 | 30 | 5 | 26 | | | 2 | 39 | | 7 | 32 | | |
| 29 | | | 9 | | 5 | | _ | 33 | 3 | 34 | 8 | 8 | 5 | | |
| | Mo. | A long storm may now | 8 | | | 29 | | 31 | 4 | 29 | | 8 | 45 | | |
| 31 | Tu. | be looked for. | 8 | 25 | 5 | 30 | 6 | 30 | 5 | 24 | II | 9 | 26 | | |

KNOWLEDGE OF BOOKS. Sploomy paths of his own; but in the Knowledge of books in recluses possession of a man of business, it is men is like that sort of lantern which a torch in the hand of one willing and hides him who carries it, and serves able to show those who are bewilder only to pass through secret andled the way which leads to prosperity.

| | | IOON'S PHASES. | | 92 | U | N (| ON | I M | EF | ID | [A] | V. | - |
|----|--------|---|-------|------|----|-----|----|-----|----------|-----|-----|----------|-----|
| La | ew Mo | arter, 1d 4h 5m even. | | ld ' | | 111 | 1 | | 59m | | 41 | 8 | |
| | | oon, 9d 10h 38m'morn. uarter, 17d 2h 11m even. | | d | | 01 | | | 2m | | | s ev | ven |
| Fu | all Mo | oon, 24d 9h 16m morn. | 17 24 | | | Oh | | | 5m 8m | | 44 | ls)s | |
| И | W | Celestial Phenomena, | 10 | | 1 | 0 | | 9 | 0 | 0 1 | 1 | 0 | 5 |
| 4 | | Aspects, &e. | De | cl. | ri | ses | se | 'S- | 3 | th | | R. | |
| | We. | Rain and wind. | 8 | - 1 | 5 | 32 | 6 | 28 | 6 | 18 | 50 | 10 | 10 |
| | Th. | | 7 | 42 | 5 | 34 | | | _ | 12 | П | 11 | - |
| | Fri. | 500 | 7 | 20 | | 35 | 6 | | | 4 | - | mo | |
| | Sat. | Cool, Cloudy weather. | 6 | 57 | 5 | | | 24 | 8 | 54 | | | 19 |
| 5 | C | | 6 | 35 | 5 | 38 | 6 | 22 | | | | 1 | 10 |
| | Mo. | 24 south, 8h 2m morn. | 6 | 13 | 1 | 39 | 6 | 21 | 10 | 29 | | 2 | 2 |
| 7 | Tu. | | 5 | | | 40 | 6 | | 1 | 13 | | 3 | |
| | We. | Pleasant, but cool. | 5 | 28 | 5 | 42 | 6 | 18 | | 57 | 1 | 4 | 3 |
| - | Th. | | 5 | 5 | 5 | 43 | | | eve | | | - | ets |
| | Fri. | 0 8 | 4 | 42 | 5 | 45 | 6 | 15 | | | | 6 | 5 |
| - | Sat. | o stationary. | 4 | 19 | 5 | 46 | 6 | 14 | 1 | 21 | | 7 | 2 |
| 12 | C | | 3 | 56 | 1 | 48 | 6 | 12 | 2 | | m | 1 - | 5 |
| - | Mo. | | 3 | 33 | 1 | 49 | 6 | 11 | | 49 | | 8 | 2 |
| - | Tu. | Altain, south, 8h 13m | | 10 | 5 | 51 | | 9 | 3 | | 1 | 8 | 5 |
| | We. | [even. | | 47 | 5 | 52 | | 9 | | 30 | | 9 | 3 |
| | Th. | Fine weather may now | | 24 | 5 | 53 | 6 | 7 | 5 | | 1 - | 10 | 1 |
| | Fri. | be expected of several | 2 | 1 | 5 | 55 | | | 1 | | 13 | 10 | 5 |
| | Sat. | days continuance. | 1 | 37 | 5 | 56 | 6 | | | 51 | 1 | 11 | 4 |
| 19 | | | 1 | 14 | 1 | | | 2 | | 45 | .ww | | |
| | Mo. | 5 south, 10h 41m even. | | 51 | | | | 2 | | 39 | | - | 5 |
| | Tu. | | | 27 | 5 | 59 | 6 | 1 | 9 | 15 | | 1 | 5 |
| | We. | enters 11h 24m | | _ | 6 | 36 | 6 | | 10 | 30 | 1 | - | |
| | Th. | [morn. | S | 19 | • | 1 | 5 | 59 | 11 | 26 | | 4 | 1 |
| | Fri. | & stationary. | | 42 | | | 5 | | mo | | | 1 | |
| | Sat. | | 1 | 5 | 6 | 3 | 5 | 57 | | 19 | | | 2 |
| 26 | 1 | Look for a long storm | 1 | 29 | 6 | | | 56 | | | | | 4 |
| | Mo. | about this time. | 1 | 52 | 6 | | | 55 | | | | 7 | 2 |
| 58 | .Ln. | | 2 | 16 | 6 | | 5 | | | | П | 7 | 5 |
| | We. | | 2 | 39 | 6 | | 5 | 52 | | 6 | | 8 | 3 |
| 30 | Th. | 5 south, 55 9m even. | 3 | 10.0 | 6 | | 5 | 51 | | | 69 | 1 | 1 |

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derrity. Potatoes, when slightly frosted sweating. When they are in this so as to acquire a sweet taste only state, in order to recover them, and often like an animal body infested bring them to a proper taste, the by some disorder which it throws off whole quantity infected should be by perspiration, are found quite wet, turned over, and a quantity of mill throwing out the frost by a kind of seeds thrown among them as they

| 1 | 84 | 7 TENTH MONTH. | (| OCI | C | BE | R. | | : | 31 | DA | YS. | |
|-------------------------------|---------------------------------|--------------------------|-----|------|---|-------|------|--------------------|----------|-----|------|----------|--|
| 777 | MOON'S PHASES. SUN ON MERIDIAN. | | | | | | | | | | | | |
| La | | uarter, 1d 2h 27m morn | 1 | 1d | | Oh | | | ILID | | | | |
| New Moon, 9d 3h 57m morn | | | | 9d | | Oh | | 10m 27s 15m 46s | | | | | |
| | First Quarter 17d 2h 31m morn | | | 7d | | Oh | | 4m | | 37 | | | |
| | Full Moon, 23d 6h 26m even | | | 3d | | 0h 18 | | | im 35 | | | | |
| Last Quarter, 30d 4h 47m even | | | 3 | 0d | _ | 0h | 1 | 6m | | 10 | 3 | | |
| M | W | Celestial Phenomena, | 100 | 0 | T | 0 | 0 | 1 | 0 | 16 | 1 | © | |
| | | Aspects, &c. | | ecl. | r | ises | sets | . s | s'th. | | - | . S. | |
| - | D . | | - | | - | | - | | - | - | - | | |
| | Fri. | Tr. | | | | | 5 49 | | 51 | | | | |
| 3 | Sat. | Fine pleasant weather | | | | | 5 47 | 1 | | 10 | , 11 | 3 | |
| | C Mo. | with a little frost. | 4 | - | | | | 1 | | | m | orn | |
| | Tu. | Z couth Oh some | 4 | | | 27.77 | | 1 | | 1 | | 7 | |
| | We. | 5 south, 9h 38m even. | 5 | | 1 | | | 1 | | m | -1 | 12 | |
| | Th. | Indications of rain. | 1 | | 1 | | | 10 | | 1 | 2 | | |
| | Fri. | indications of Fam. | 6 | | 6 | - | | 11 | 18 | | 1 | | |
| | Sat. | eclipsed, invisible. | 6 | | 1 | | | 11 | 59 | | 4 | 30 | |
| | C | eompsed, mvisible. | 6 | 53 | | | | eve | | - | - | ets | |
| 11 | | | 7 | 16 | | | | | 46 30 | 111 | 6 | 13 | |
| 12 | | Markab south, 9h 42m | | | | | - | 1 | 16 | | 7 | 48 28 | |
| | We. | even. | 8 | 1 | | | | 1 | 4 | 9 | 8 | 13 | |
| 14 | Γh. | A storm may be expected | | 23 | | | | 3 | 53 | 100 | 9 | 3 | |
| 15 H | Fri. | | 8 | 45 | | 31 | | | 44 | 12 | 9 | 59 | |
| 168 | Sat. | 5 south, 8h 37m even. | 9 | 7 | | 33 | | | 36 | ~ | | | |
| 17 | C | | 9 | 29 | 6 | 34 | | 6 | 28 | | moi | en l | |
| 18 1 | | 5 in δ | 9 | 51 | 6 | 36 | | 7 | 22 | | | 3 | |
| 19 1 | | Quite mild. | 10 | 13 | 6 | 37 | 5 23 | 8 | 15 | | 1 | 6 | |
| 20 1 | | | 10 | 34 | 6 | 38 | 5 22 | 9 | 9 | 9 | 2 | 10 | |
| 21 1 | | (D) 83 | 10 | 56 | 6 | 40 | 5 20 | 10 | 4 | | 3 | 16 | |
| 22 F | | | 11 | 17 | | 425 | 18 | 11 | | 8 | 4 | 24 | |
| 238 | - | Utterly impossible to | 11 | 38 | | 43 | | | | | ris | es | |
| 24 | C | | 11 | 59 | 6 | 45 5 | 15 | mo | rn | | | 50 | |
| 25 1 | | prognosticate, with any | 12 | 20 | 6 | 46 | 5 14 | 1 | 54 | П | 6 | 27 | |
| 26 T | | 1 0 | 12 | 40 | 6 | 485 | 12 | 2 | 52 | 1 | | 10 | |
| 21 V | ve. | degree of accuracy, what | 13 | | 6 | 495 | 10 | 3 | 49 | 50 | | 1 | |
| 28 1 | | | | | | | 5 11 | | 43 | | 9 | | |
| 29 F 30 S | | weather may be for the | | | | | | | 35 | 1 | | 3 | |
| 31 | | | 14 | 10 | 0 | 535 | . 7 | 6 | 23 | - 1 | 11 | | |
| | | remainder of the month. | | |) | 0415 | 6 | 7 | 9 | 1 | mo | rn | |

Economy is one of the chief duties of mission of crime and the endurance of a state, as well as of an individual. It misery. The man that lives within his is not only a great virtue in itself, but income can be just, humane, charitable, it is the parent of many others. It pre- and independent. He who lives beyond serves men and nations from the com- it becomes, almost necessarily, rapaci

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| 1 | 847 | ELEVNTH MONTH. | N | IOV | Æ | ME | BE | R. | | 3 | 0 I |) _{AY} | s. | | |
|-----------------------------------|---------------------------|---|------------------|------|-------|-----|----|-------|-----|----------|----------|-----------------|----------|--|--|
| MOON'S PHASES. SUN ON MERIDIAN. | | | | | | | | | | | | | | | |
| Ne | New Moon, 7d 10h 1m even. | | | | 7d Oh | | | | | 16m 4s | | | | | |
| First Quarter, 15d 1h 5m even. | | | | | | Oh | | | | | 5 | , | | | |
| | ll Mo | | 22d Oh 29d Oh | | | | | | | 28 | | | | | |
| Last Quarter, 29d 11h 12m morn. | | | 28 | a | | Oh | | 1 | lm | | 36 | 3 | _ | | |
| M | W | Celestial Phenomena, | 1 | | | 0 | | | 1 6 | 9 | 9 | (|) | | |
| | " | Aspects, &e. | De | cl. | ri | ses | se | 's. | S | th | p. | R | S. | | |
| 1 | We. | | 14 | 39 | 6 | 55 | 5 | 5 | 7 | 53 | 711 | | 14 | | |
| 200 | Th. | A long, cold rain may | | 58 | | 57 | | 3 | 8 | 36 | m | 1 | 23 | | |
| 3 | Fri. | , | 15 | 16 | 1 | 58 | | 2 | 9 | | | 2 | 27 | | |
| 4 | Sat. | be expected about this | 15 | 35 | 6 | 58 | 5 | 1 | 10 | 1 | | 3 | 30 | | |
| 5 | | | 15 | 53 | 7 | | 5 | | 10 | 44 | | 4 | 31 | | |
| - | Mo. | time. | 16 | 11 | 7 | 1 | | 59 | 11 | 30 | 111 | 5 | 53 | | |
| - 1 | Tu. | 24 stationary. | 16 | 29 | 7 | 2 | | 58 | eve | en. | | se | ts | | |
| | We. | o greatest brilliancy. | 16 | 46 | | 3 | 4 | 57 | | 14 | 1 | 5 | 43 | | |
| - | Th. | HE CAN SERVICE THE R | 17 | 3 | 7 | 4 | | 56 | 1 | 1 | | 6 | 28 | | |
| | Fri. | b stationary. | 17 | _ | 7 | 6 | 4 | 54 | 1 | 50 | | 7 | 10 | | |
| | Sat. | More moderate. | | 37 | 7 | 7 | 4 | 53 | 2 | 41 | 13 | 8 | 6 | | |
| 12 | C | | 17 | 53 | 1. | 8 | 4 | 52 | 3 | 32 | | 9 | 8 | | |
| | Mo. | 24 south, 3h 58m morn. | 18 | 9 | | 10 | | 50 | 4 | 24 | *** | 10 | 11 | | |
| - | Tu. | A -1:-1.4 C.11 - C | 18 | 24 | | | 4 | 49 | 5 | 16 | 1 1 | 11 | 15 | | |
| _ | We. | A slight fall of snow | | | 7 | 12 | | 48 | 6 | 8 | \times | mo | orn | | |
| - | Th. Fri. | may be supported about | 18 | 55 | | 13 | | 4.7 | 7 | 50 | 00 | 1 | 20 | | |
| - | Sat. | may be expected about | 19 | 9 24 | 7 | 14 | | 46 45 | 8 | 52 45 | | 1 2 | 26 23 | | |
| 19 | C | the midde of this month | | 38 | | 16 | | 44 | 9 | 40 | | 3 | 35 | | |
| - | Mo. | the thidde of this month | 19 | 51 | | 17 | - | 43 | 16 | 46 | 10 | 4 | 36 | | |
| 1-0 | Tu. | | 20 | | | 18 | | 42 | 11 | | П | 5 | 34 | | |
| 1.0 | We. | b south, 5h 34m even. | 20 | | 7 | 19 | | | mo | | 11 | - | ses | | |
| 10.0 | Th. | | 20 | 30 | 1 | 20 | | 40 | 1 | 32 | | 5 | 31 | | |
| | Fri. | High wind. | | 42 | 1 | | 4 | 39 | 2 | | 159 | 6 | 21 | | |
| | Sat. | 24 d D | 20 | 53 | | 22 | | 38 | | 24 | | 7 | 17 | | |
| 26 | C | 11 198 1 18 1 18 18 18 18 18 18 18 18 18 18 1 | 21 | | 7 | 23 | | 37 | 4 | | 10 | 8 | 17 | | |
| | Mo. | Look (probably in vain) | 21 | 15 | | 24 | | 36 | 5 | 4 | 1 | 9 | 19 | | |
| 28 | Ln. | The latest that there are | 21 | 26 | | 25 | 4 | 35 | 5 | 50 | m | 10 | 24 | | |
| | We. | for an earthquake. | 21 | 36 | 7 | 26 | | 34 | 6 | 35 | 1 | 11 | 30 | | |
| 30 | Th. | 3 south, 9h 17m even. | 21 | 46 | 7 | 27 | 4 | 33 | 7 | 17 | 1 | m | orn | | |

ous, mean, faithless, contemptible. These haracter as well as national happiness economist is easy and comfortable; the has, from the beginning of the world to prodigal harassed with debts, and until the present day, been sacraficed on the able to obtain the necessary means of altar of profusion.

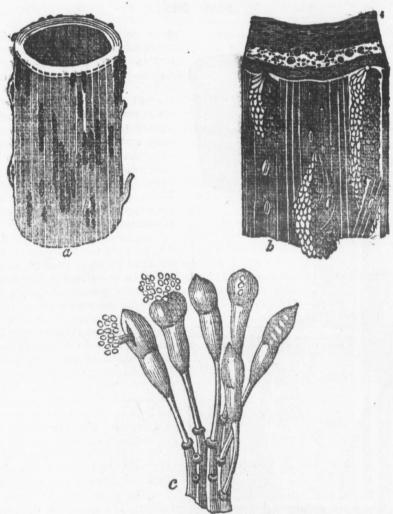
life. So it is with nations. National?

Spectator's Key

| 1847 | TWELFTH MONTH. | I | E | CE | ME | BE | R. | | 3 | 1 | DAY | rs. | | |
|--|------------------------------------|-----------------|---------------|----|----------|----|----------|---------|----------|---------------|-----|----------|--|--|
| MOON'S PHASES; SUN ON EERIDIAN. | | | | | | | | | | | | | | |
| New M | 7d 0h 7m 59s | | | | | | | | | | | | | |
| New Moon, 7d 3h 21m even First Quarter, 14d 10h 17m even. | | | 14d 0h 4m 46s | | | | | | | | | | | |
| Full Moon, 21d 4h 58m even. | | | 21d Oh 1m 18s | | | | | | | | | | | |
| Last Quarter, 29d 8h 34m even. | | | 29d 1h 57m | | | | | | | 19 | 19s | | | |
| MW | Celestial Phenomena, | | 9 | | 0 | | 0 | (| 0 1 | 0 | 0 |) | | |
| | Aspects, &c. | D_{ℓ} | ecl. | ri | ses | se | ts. | | 'n | | R. | | | |
| 3 We. | | - | | - | - | - | - | - | t | - | - | - | | |
| 1 Th. | Snow were be seened ! | 21 | 55 | | 28 | | | | 58 | ~ | | 40 | | |
| 2 Pri. | Snow may be expected. & statonary. | $\frac{22}{22}$ | | 7 | 28 | - | 32 | 8 | 40 | | 1 | 43 | | |
| 4 Sat. | o statonary. | 22 | 12 20 | | 29 29 | | 31 31 | 9 | 21 | M | 3 | 45 | | |
| 5 C | Alderbaren south, 11h | | 28 | | | | 30 | | 9 | | 3 | 46 | | |
| 6 Mo. | [43m even. | | | | 30 | | 30 | | 56 45 | 4 | 5 | 46 44 | | |
| 7 Tu. | L'am oven. | 22 | 42 | | 31 | | | eve | | 1 | | ts | | |
| 8 We. | & south, 8h 42m even. | 22 | 48 | | 31 | - | 29 | 0,40 | 26 | 1/0 | 5 | 29 | | |
| 9 Th. | High Wind. | | 54 | | 32 | | 28 | 1 | 28 | 75 | 6 | 35 | | |
| 10 Fri. | | 22 | 59 | | 32 | | 28 | 2 | 21 | *** | 7 | | | |
| 11 Sat. | Dog Star south, 1h 27m | | 4 | 7 | 33 | 4 | 27 | 3 | 13 | | 8 | 40 | | |
| 12 C | [morn. | | | 7 | 33 | | 27 | 4 | 5 | | 9 | 45 | | |
| 13 Mo. 14 Tu. | Snow | | 12 | 1 | 34 | | 26 | 4 | 57 | \mathcal{H} | 10 | 50 | | |
| 15 We. | + | 23 | 16 | | 34 | | | - | 48 | | 11 | 55 | | |
| 16 Th. | 5 greatest elongation, | 23 | 19 | | 34 | | 26 | - | 39 | P | mo | rn | | |
| 17 Fri. | 8 9 D Cloudy. | 23 | 21 | | | | 25 | | 31 | | 1 | 1 | | |
| 18 Sat. | δ P D Cloudy. | 23 23 | 23 25 | 1 | | | 25 | | 24 | 8 | 2 | 10 | | |
| 19 C | 77 south, 1h 29m morn. | 23 | 26 | 1 | | | | 9 10 | 20 | _ | 3 | 18 | | |
| 20 Mo. | /c/ooden, in som morn. | 23 | 27 | 1 | 69 | | | 11 | 17 | П | 4 | 25 | | |
| 21 Tu. | | 23 | 27 | | 36 | | 24 | | orn | 69 | 5 | 33 es | | |
| 22 We. | enters vs 6h 56 morn. | 1 | 27 | | 36 | | 24 | | 8 | 9 | 5 | 25 | | |
| 23 Th. | | 23 | | | | | | - | 3 | n | 6 | 28 | | |
| 24 Fri. | H stationary, | 23 | 25 | 7 | | | 25 | | 55 | 00 | 7 | 32 | | |
| 25 Sat. | Christmas. | 23 | | | | 4 | 25 | 3 | 42 | | 8 | 37 | | |
| 26 C | For further astronomi- | | | | | | 25 | 4 | 27 | ^ | | 42 | | |
| 27 Mo. 28 Tu. | cal calculations, prog- | 23 | | | | | | | 11 | | 10 | 48 | | |
| 29 We. | nostications of weather, | 23 | | | | | | | | | 11 | 54 | | |
| 30 Th. | miscellany, &c, see Mil- | 20 | - | | | | | | 36 | | | rn | | |
| 31 Fri. | ler's Almanac for '48. | 100 | - | 7 | | | 26 | 7 | | M | 1 | 1 | | |
| | GO THE WHOLE WOO! | 23 | 3 | 7 | 34 | 4 | 26 | 8 | 3 | | 2 | 10 | | |

"GO THE WHOLE HOG." such extensive traffic, a purchase The expression, I am told, is of may supply his table at a lower price Virginia origin. In that state, when the butcher kills a pig, it is usual to magination revels among prime piedemand of each customer whether ces, to the exclusion of baser mathe will "Go the whole hog?" as, by ter.—Hamilton's Men & Manners.

RUST IN WHEAT.



in wheat, as we find it delineated in bility to the description, with those who Johnson's Enclyclopedia. a, is a por-have had limited opportunities of ob. tion of straw, magnified, to show the serving the wonders of nature's works. parastic plant or fungus, which is called In reality, however, it is no more surrust, or mildew. b, is a small section of prising that vegetables should exist and the straw, much more strongly magni- mature and scatter their seeds, which representation, showing a small part of form to the naked eye, than it is that the bottom of the pore in the straw, hundreds of animals, of new and strange with some of the parasitic fungi growing forms, perfect in all their parts, but imupon it. Two of these are represented as perceptible to the naked eye, should be seen bursting and scattering their seeds, discovered in a single drop of marsh-

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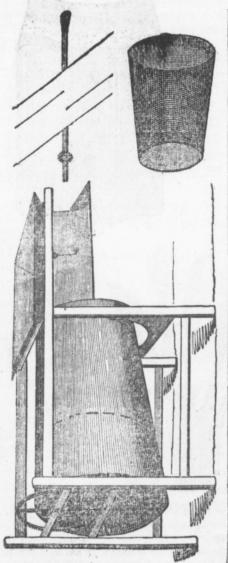
mat-

ers.

The above is a representation of rust vegetation will give an air of improbac, is a very highly mangnified are too small to exhibit any organized

The exceeding minateness of this water. Mich. Far.

DESCRIPTION OF A. COOLEY'S REVOLVING IRON FAN-NING MILL.



The whole is to be constructed of iron, is carried down to the hoop at the except the frame, which is composed of lower end of the screen, and distimber two inches square. The cylinder, charged through holes cut in the which contains the fan, screen and sieve is cylinder made of sheet iron, in length 3 feet, and in Within and extending the same diameter 24 inches at the upper end and 30 length of the screen is a cylinder nches at the lower end. When the cyl sieve approaching somewhat to the inder is suspended in the frame, the bottom form of a cone the small end downwill be on an angle of about 15 de-ward; the sieve is constructed in this.

grees while the top is level. The upper end of it is supported by two friction rollers, while the lower end rests upon a rim of flange, 8 inches in diameter, which is attached to the back side of the spur wheel,-There are two sets of arms or spokes extending from the centre to the inner surface of the cylinder-one set at the lower end, and the other about midway of the cylinder. A. turned iron shaft 20 inches long and 3 of an inch in diameter, to which the wings of the fan are attached is suspended or running through the centre of these 2 sets of arms, while the lower end to which the small cog wheel or pinion is attached, rest in a box in the frame. The fan is constructed some what like the propellers in steamboats the wings of which are attached to the shaft between the two sets of arms or spokes extending from the shaft to within 1 inch of the inner surface of the cylinder, barely giving room for the wheat to pass under them. While the fan is driven at the rate of 500 revolutions, the cylinder is moving in a contrary direction only at the rate of 20 revolutions per minute. In the upper portion of the cylinder, extending down to the middle set of arms, is a screen, surrounding the inside and supported by hoops at each end, one inch in thickness, which keep the screen one inch from the inner surface of the cylinder, giving room for the chess, cockle, and other foul stuff to pass through the screen upon the inner surface of the cylinder, and by its revolutions

form for the purpose that the bottom finest quality used in the common fan, portion where the grain and chaff may ning mills for wheat. The revolving fall, shall incline a little backward, so motion keeps the wheat and chaff in as to allow the wheat heads and other such motion that the sieve will not heavy substances to pass off with the choke, as in the common mill.

chaff. Both the sieve and screen are at-der, where it discharges itself. The not swell, shrink, rot, or rust. hopper sets upon the back end of the 2. There is no shaking process, as in frame, over the shoe, and is stationary. The shoe is suspended by two wire hoops under the hopper and a slight motion is given to it by means of an excentric, attached to the end of the shaft getting out of order with common usage of the fan. The fan is propelled by a but will endure for a century.

cog-wheel 18 ins. in diameter, which meshes into a 3 inch pinion The cy.

3. It will clean wheat fit for market rim on the back side of the cog.wheel. per hour. The sieve is kept to its place by means. of springs so that, one quality can be old wooden mills. readily taken out and another for a 5. It will cost no more. different kind of grain be put in its 6. The weight of it is not more than wheat, rye or barley and that is the consequently more portable.

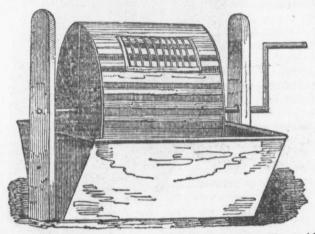
it. As the grain passes through the the frame, and covered inside and out sieve into the screen the revolving mo- with Japan Varnish, rendering it imtion carries it to the end of the cylin-pervious to water; consequently it will

linder, as before described, is carried by one running through (if it is not very in a contrary direction as a flange or foul,) and clean at the rate of 40 bushels

4. It turns one half easier than the

place. Only one sieve is required for half of that of the old fashioned mill-

A POTATO WASHER.



We copy the above sketch of a potato cylinder may be easily unshipped from washer from the English Agricultural the frame any time desired. We have Gazette, which describes it as simply a seen something similar to this in our churn-like cylinder, with open bars country, and it was found very conplaced at such a distance as to prevent venient, especially where large quantany of the potatoes from falling through, ties of potatoes are used. Potatoeis, except very small ones. As i: revolves, and indeed, all roots, before being fed the lower part passes through a trough to stock, ought to be well washed .-of water, and thus washes them. The Am. Ag.

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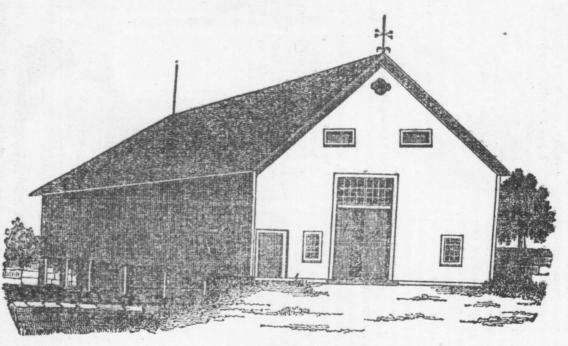
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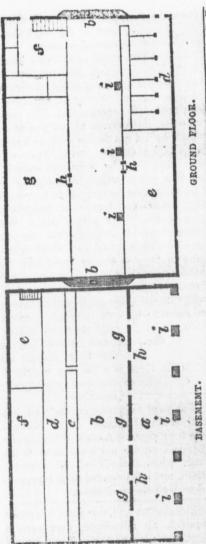
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A MASSACHUSETTS BARN.



ELEVATION.

Description of Elevation.—b b, Large doors, which open on the barn floor. b, Stable door. The windows slide back and forth, for the purpose of ventilation when necessary.



I HE WINDOWS

o, wlable door.

or on the part 1001.

stide back and forth, for the purpose of ventilation when necessary

Barn floor, 12 feet by 60.

b b, Doors hung on iron rods and rol-laid cross-wise. lers over head, like the folding doors of ces of these the liquid manure runs down batens, formed so as to give the doors plank replaced. posts on each side of the doors are 14 c, Manger, 3 feet wide, made with inches wide, with a piece sawed out plank formed into timbers and pinned; the appearance of pannel work.

sills with a double cock-tenon, to give strength.

c c, Stone door sills, 1 6 feetlong by 18 inches wide, with a lip raised on the inside, against which the doors rest, and then slanting with a bevel outward.

d. Stable, 12 feet by 24, with fixtures for one pair of working horses, and two yoke of oxen.

e, Bay, 8 teet high, until it rises above the stable, then it runs the whole length of the barn, 60 feet.

f, Store room, 16 feet square, with a flight of stairs leading into the cellar, 8 feet high.

g, Bay, 16 feet by 44, until it rises above the ceiling of the store room, then it goes the whole length of the barn, 60 feet,

h h, Upright posts framed into timbers above and below, with rungs inserted for ladders, to ascend and descend at pleasure.

i i i, Narrow scuttle doors, through which the loam is passed down into the stable below, to cover the hardpan, over which the boards and plank are laid, as described in b, of the basement

Description of Basement .- a, Open shed, facing east, 12 feet by 60

b, Stable, with windows the whole length, hung with strong strap hinges to open and shut at pleasure, also a window at the south end. The object of so much window is, to throw out the manure, and to ventilate the stable, which is 12 ft. by 60. The ground under the stable is a hardpan, over which is placed every summer a layer of loam 6 or 8 ins. thick, and carefully leveled. On this Description of Ground Floor .-- a boards are laid lengthwise, some inches apart, and on these boards plank are Through the intersti-

the parlors of our modern houses and mixes with the loam which is thrown in the cities, opening and closing with out in the spring, and mixed with the equal ease; made of 12 inch clean stuff manure under the shed, and fresh loam and battened on the outside with open put in place of it, and the boards and This takes but a The short time to do.

of the centre, through which the doors not a nail about it, and perfectly tight . pass. The posts are framed into the Stalls are divided off for two cows or oxen each, to be tied with ropes fasten lown, painted, and the roof well shinged at each outer corner.

d, Open space, 5 feet by 60 feet.

e, Cellar, 8 feet by 16, filled with

the roof, 27 feet to the eaves.

doors, which are guarded by a narrow himself, he did and saved what was plank fixture to keep the loam in its equivalent to it by personally superinplace' which is mixed in small quantities tending every stroke; by being up at with the manure every morning as the the early dawn of day with teams all stables are cleared.

h h, Stable doors.

round rods.

each side of the barn doors, and the last a century or upwards. space is filled up with earth between, The yard adjoining on the east, has boards, well seasoned planed, tongued, winds, and it is intended to be surroundand grooved together, running up and ed with sheds on all sides.

led, and every part of the work done in the most substantial manner.

Cost .- The stone and timber being roots in the fall and supplied from the on M. K.'s own land, the whole cost of pits during the winter as they are wanted this barn did not exced \$600, the work f, Bay, 8 feet by 34. running up to of the owner reckoned at the usual rates he paid to other mechanics. The presg g g, A bank of loam the whole umption, however, in my own mind is, length of stable, except against the that if he did not do the work of 3 men Ifed, yoked, and harnessed, and every man placed at his proper post. iii, Seven stone pillars 10 feet long, make these observations that no one standing on flat stones 2 feet under may be disappointed who shall underground, bolted to the sill of the upper take to build a similar barn, hire his story with iron bolts, made of 11 inch builders, stone-cutters, masons, and carpenters, find them plenty of alcohol, The barn stands upon a strong foun-while he sits at the neighbouring tavern dation of stone on the west side; both taking into his own stomach copious ends are laid in lime mortar, and well draughts of the good creature, talking pointed with the same material. The politics, &c., &c., and finds on footing top stones of this foundation are from 10 up all his bills that they amount to to 14 feet long, by about a foot square. \$1,200. Here is a building which, if At the south end, the walls jut out on kept properly covered and painted, will

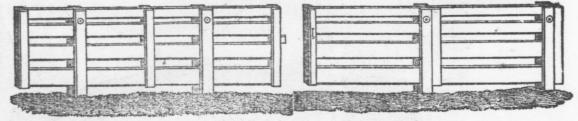
to make a gradual descent, and the a fountain of running water brought egress easy for an empty cart or wagon into it by pipes. A high wall supports to pass out into the adjoining meadow, the bank on the north side next to the The outside covering is of clear pine road, which breaks off all northern

A late number of Hunt's Merchant's to him that he had, upon one occasion' Magazine, a American periodical, con-obtained an advantage over such a tains an interesting memoir of the late neighbour : "And to-day," said he, "I Gideon Lee, from which we derive the have obtained one over you," " Well," following adecdote, illustrate of his own said Mr. Lee, "that may be; but if you fair dealings, and of the usual effects of will promise never to enter my office trickery in trade. No man more the again, I will give you that bundle of roughly disposed dishonestly than Mr. goat skins." The man promised, and Lee; and he used to remark, "no trade took them. 15 years afterwards, he can be sound that is not beneficial to entered Mr. Lee's office. At the inboth parties; to the buyer as well as stant, on seeing him, he exclaimed, the seller. A man may obtain a tem- "You have violated your word; pay porary advantage by selling an article me for the goat skins ?" "I am quite for more than it is worth, but the very poor, and have been very unfortunate effect of such operations must recoil on since," said the man. "And you will him, in the shape of bad debts and in-always be poor; that miserable desire creased risks." A person with whom for over reaching others must ever keep he had some transactions, once boasted you so," said Mr. Lee.

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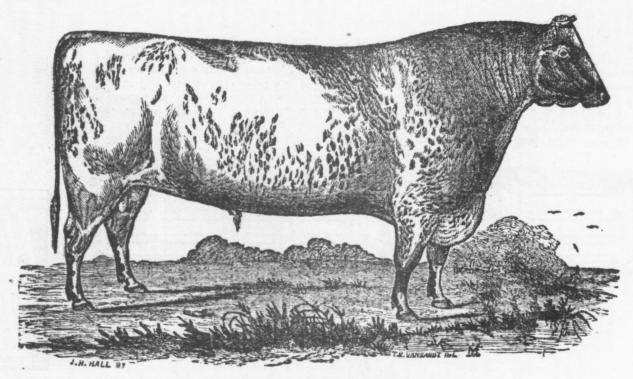
BAKER'S PATENT FARM GATE.



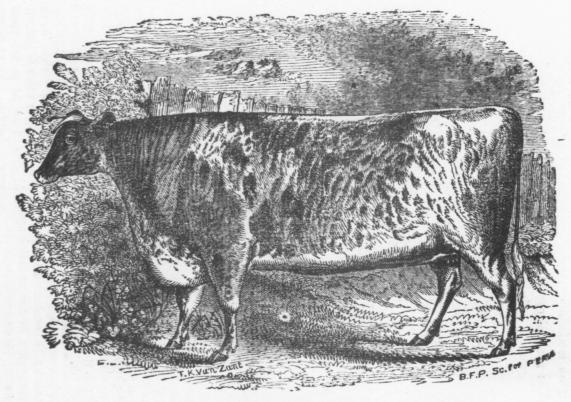
Self-Bal ancing Gate.—The above is a cut pushing to the right and left. It may be of a self-balancing farm gate invented by made of wood or iron, and costs little more Mr. Anson Baker, of Western, N. Y., and is than a pannel of fence. When shut it has represented in the sketch as partly open, the appearance of one of the pannels. It is It has been in use some time in Western peculiarly convenient in winter, those using and the neighbouring towns, and is much it not being obliged to clear away the snow liked. It runs on rollers inserted in the in order to open or shut it, nor can it be osts, under the upper slat. It is opened by swayed to fro by the winds.

Self-Shutting Gate—This is an admirable gate where is an admirable gate where is also runs on rollers. The slats being placed obliquely, the moment the hand lets go of the gate instantly slides back and shuts.

2



A DURHAM BULL.

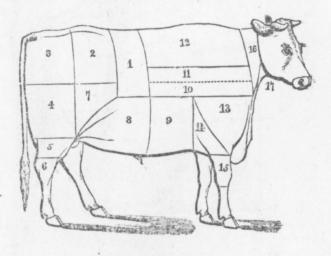


, A DURHAM COW.

DIFFERENT MODES OF CUTTING UP AN OX.

It may be useful to see the mode of cutting up the carcass of an ox in London. The provisions exported from that metropolis rule the trade in the West India Islands, and in other distant places abroad. very proper, therefore, that American packers should understand the English methods.

The annexed cut will show the London mode:



Hind-quarter-1, loin; 2, rump; buttock and middle rib will fetch 8, fore rib.

and neck; 14, shin; 15, leg.

ox fetch 8d-a pound, the thick flank, may be seen at a glance.

3, itch or adze-bone; 4, buttock; 5, 6d.; the itch or adze bone, thin hock; 6, thick flank; 7, thin flank, flank, chuck rib, brisket, and leg of mutton piece, 5d.; the clod and sticking and neck, 3d.; and the Fore-quarter-9, middle rib; 10, legs and shins, 2d. a pound. Such chuck rib; 11, brisket; 12, leg of is the difference in value of the difmutton piece; 13, clod and sticking ferent cuts of an ox in the meat markets in London. As an object The relative value of these differ- of comparison, we shall also give a ent cuts of an ox may be stated at figure of an ox cut in the Edinburgh their current value, viz: when the method, as in figure 2, and the great rumps, loins, and fore ribs of a fine difference between both methods

FIGURE 2.

2 C 8 1 10 4 11 12

eye; 2, hock bone; 3, buttock; and upon the meat, and give it a bad 4, large round rump; 5, small rump; colour and a slimy feel. 6, hough; 7, thick flank; 8, thin river or rain water is used, (and flank 9, nine holes.

Fore-quarter-10, large runner; 11, small runner; 12, square rib, or fore sye; 13, brisket; 14, shoulder 17, sticking piece.

It is therefore obvious that of the London affords much more of the carcass; and of conrse more money would thereby be realised from it.

ture; for the sediment from that better."

Hind-quarter-1, surloin, or back which is impure, will settle down Where soft water should always be prefered it.) would be exceeding desirable to filter it through sand, or at least to strain it. A great deal of beef lyer; 15, nap or shin; 16, neck; tion by the use of unfiltered water and pork is utterly unfit for exportain making the brine.

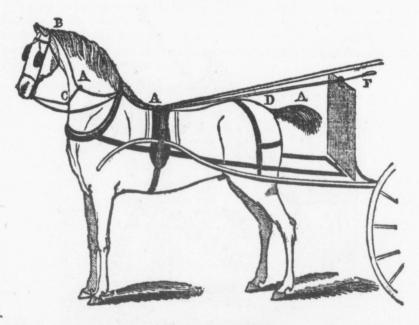
"In packing provisions, the tierces. two methods of cutting up beef, barrels, &c., should be made with great care and neatness. valuable pieces out of the same handsome ash staves are prefered and of such other hard, close grained wood as will not stain the meat. It is well to observe that the Tierces should have four iron hoops. greatest attention should be paid or three-one at each bilge and one to making the brine or pickle, at each chime; barrels with an iron whether for beef or perk. Pure hoop at each chime. The fuller water should be used in its manufac- hooped the barrel or tierce is, the

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SAFETY REIN.



will be seen that the operation of it is, out of his power. to choke the horse; so as effectually to subdue his running disposition, whether it proceeds from vice or fear. Any out who has read of the catching and taming the wild horses of South American the wild horses of South American the wild horses of South American the wild place the loop which is on the who has read of the catching and taming the wild horses of South America, knows the power which is soon obtained over them by means of the all potent lasso. With it, in a very little time, the most high spirited and ferocious of these "lordly racers of the wild" are subdued and rendered obedient as kittens. Its operation is so sudden and effectively that it estapsishes and over the full benefit of this rein. effectual, that it astonishes and over-

venient than the check rein.

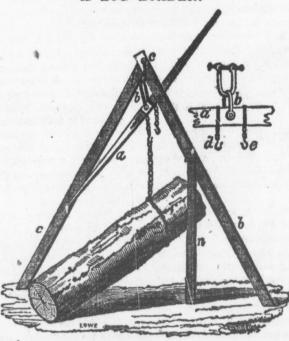
crossing the throat, through the loops of it in case of an emergency. which, at either end, the reins pass, is By attending to these directions, the the one which does the work. The most troublesome horse will, to a cer-

We give above a cut of this invention, reins at F, tightens the cord C, and copied from the Spirit of the Times. It by choking the animal, puts mischief

To derive the full benefit of this rein. whelms the animal, and renders him it is recommended after the horse has totally powerless for evil or resistance. been a few times firmly gripped with it, It will be seen that it is wholly sim- to use it occasionally, and it should freple, and little more expensive or incon-quently be used instead of the bit-rein to stop him on ordinary occasions; this The roan, it will be seen, is fastened will remind the horse of this subto a book on the top of the head at B, jection, and will accustom the rider or and the other end at F. The strap C driver to the ready and accurate use of

man in the vehicle, by pulling on the tainty, become quiet and manageable

A LOG LOADER.



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It consists of a double acting lev-length 'suited' to the weight and er, a, 10 feet long, suspended in the height of the object to be raised For loading logs on a wagon, they middle by the clevis, c, which is should be 61 feet; if it is a short or hooked in the clevis, the bolt of round object, a third shear pole which passes through the upper end should be set against a pin in one of of two shear poles which admits the other legs. The machine is them to open and shut as best suits. to be placed over the object to be The hooks d and e are placed $2\frac{1}{2}$ raised; a chain is then to be placed inches from the fulcrum, connected around it, one end of which is fastento the staple by a link and swivel, ed to one of the hooks of the lever, which enables the hooks to be turned the lever is then worked, and the in the links of the chain either way. hooks to be hooked one below the The shear poles may be of a other alternately.

IMPORTANCE OF WELL DIRECTED LABOUR.

"What great effects from little causes spring, What wealth does well directed labour bring.

A single stroke of an axe is of little greatest industry misapplied is useless. consequence; yet by the continual application of that small power, properly bour, Seth Steady, the Blacksmith, is directed, what amazing effects are pro- not only an industrious man, but his duced; the sturly oak and lofty pine do industry is applied to one object. His not simply own its power, but whole hammer is heard at dawn of day, and forests before it, and the wilderness be- the fire blazes in his shop during the comes a garden.

Industry well directed, will give a man a competency in a few years. The

As an example, there is my neighevenings, from the 20th of September to the 20th of March. Go to this shop purchased cows again, for cheese was at any time in the day for any kind of up, and wool was down. Last year, work, you are sure to be waited upon. The consequence is, his purse is filled with dollars, and his cellars well filled with provisions, and that's what I call go to hauling; for, by a nice calculation, he had proved that money might liberal, and enjoying the good things of life as he goes on, ten years of health will enable him to purchase a good ded to sell his team, build a saw-mil, and go largely into lumbering. The

As a contrast, there is my friend Nat Notional, the busiest and most industrious mortal in existence; as the old saying is, "he has too many irons in the fire," and with all his industry he goes found that an oil mill would afford the behind-hand.

behind-hand.

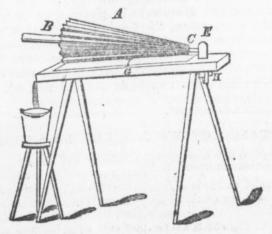
He has a farm, but instead of pursuing great industry, building an oil-mill. I the cultivation of it, he seizes on every new project that occurs.

best profit; and to work he went with great industry, building an oil-mill. I happened to go there a few weeks afterwards, and the whole organization

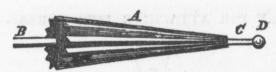
A few years ago he concluded to of the mill was undergoing an alteration, give up the dairy business, in conseto fit it up for cotton and woollen manuquence of the low price of butter and factory.

cheese; sold his cows at a low figure, and purchased sheep at a high rate for to him to abandon that project and enwool then commanded a high price. The largely into the manufacture of flour, By the time he got fairly into the raisand I have no doubt that he will readily ing of wool, down went the price of accede to the proposal. So with all his wool, and up went the price of butter industry and expense, he is neither beand cheese. He then sold his sheep and nefiting himself nor the public.

BUTTER WORKER.



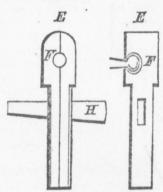
A, fluted roller, 24 inches long, 8 creases, worked to an edge so deep as to inches in diameter at handle, tapering make the inside of the flutes a right angle to 2 inches at the shank; 16 flutes or running out to the surface of the shank.



B, handle; straight, seven and a E, socket block, made of two pieces

D, ball; two inches in diameter.

quarter in diameter.



half inches long, and two inches dia each 31 by 11 inches, shouldered to rest on the top of table, passing through, secured by a key wedge through both parts C, shank: five inches long, one and lengths so as to bring the bottom of the roller fair upon the block.

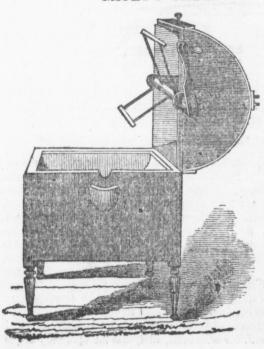
> F. socket turned into the block, ½ the socket in each part, 4 inches from the top, to enclose and confine the ball, which should, however, work freely

G, table, inclined.

H, wedge key, to secure the socket block firmly to the table.

I, marble-block, 24 inches square, around it a gutter cut in the table to receive the buttermilk, and conduct it to central point, where it can pass off in one stream.

GAULT'S PATENT CHURN.



This implement has beeu in use for several years, and many persons consid- . er it the most approved and convenient Churn now used. The particular advantages claimed for it over other patent churns, are - " the facility with which it can be worked, from its quick and powerful motion; the ease with which it can be cleaned; and that it is not liable get out of order.

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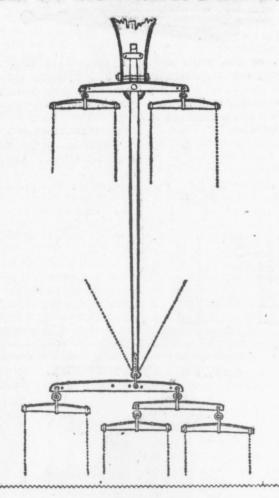
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PLAN FOR ATTACHING FIVE HORSES.



GRAFTING.

The great number of modes described stock thus supplies the sap, as the soil in books, have tended rather to be wildoes in the case of a cutting, der than to enlighted beginners; the following remarks, therefore, are more of its own extends its forming woods for the purpose of laying down reasons on which success depends, than for pointing out the particular modes of operation, provided attention is given to first, that the graft be so set in the stock, that the sap may flow upwards without

Propagation by grafting differs main-interruption; and the second, that the ly and essentially from increasing by forming wood may flow downward uncuttings, by inserting the cutting into interruptedly through the inner bark. the growing stock of another tree, instead of directly into the soil. The needful, first, that the operation be per-

tween the inner bark and the wood, the plasters before applying them. should coincide or exactly correspond the graft, but also to exclude the wet, and most certain of success. until by the growth of the graft the union is effected.

- 1. The first requisite is best attained by keeping a keen, flat-bladed knife to cut the faces, and another knife for other purposes.
- The second requires that the jaws of the stock in cleft-grafting, press with some force, but not too much, against the wedge-shaped sides of the graft. A stock one-third of an inch in diameter will some times do this sufficiently; three-quarters of an inch is a more convenient size. In whip-grafting, the tongue and slit should be firmly crowded or bound together.
- 3. The third requisite is attained by close examination.

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formed with a sharp knife, that the in which case it should be worked with vessels and pores may be cut smoothly wet hands, until it may be drawn into and evenly, and the two parts be ribbons of wax, which are wrapped brought into immediate and even con-round the part. In all cases it should tact. Secondar, that the operation be be applied closely, so as to allow if so contrived that a permanent and con-possible no interstices, and covering cut siderable pressure be applied to keep all or split surface otherwise exposed to the parts of these cut faces closely together. air. In cool weather, a lantern, chafing. Thirdly. that the line of division be-dish, or hot brick, is necessary to soften

The annexed figures represent the two in each; for if the inner bark of the one set wholly on the wood of the other, most common modes usually adopted the upward current through the wood for fruit trees; fig. 37, representing whipand back through the bark, is broken, grafting, which if well performed with and the graft cannot flourish or grow, the parts closely pressed together, needs And, fourthly, that the wounded parts no ligature to keep the graft in its. made by the operation, be effectually place; and fig 38, the common mode excluded from the external air, chiefly or cleft-grafting, which except for to retain a due quantity of moisture in small stocks is generally found best

> Fig. 37 Fig. 38.



It is hardly necessary here to mention that propagation by grafting and by cuttings is to be performed early in: 4. The fourth is accomplished by spring before the buds swell; and that plasters of grafting-wax, and by the ap-the grafts or cuttings may be cut late in plication of grafting clay. Grafting autumn or any time during winter, prowax may be made by melting together vided the natural moisture is preserved one pound of beeswax, two of tallow, until used. A convenient mode of thus and four of rosin.* It is spread, when preserving them, is to wrap or imbed melted or softened, on muslin or thin them in damp, not wet moss; or bury unsized paper, with a brush or spatula, them in a box, beneath the surface of a It is sometimes applied without plasters, dry spot of earth, the box to be open downwards, and the grafts to be kept * More wax and less rosin is less adhesive from contact with the earth by sticks across the inside of the hox.

to the hands, but more expensive.

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