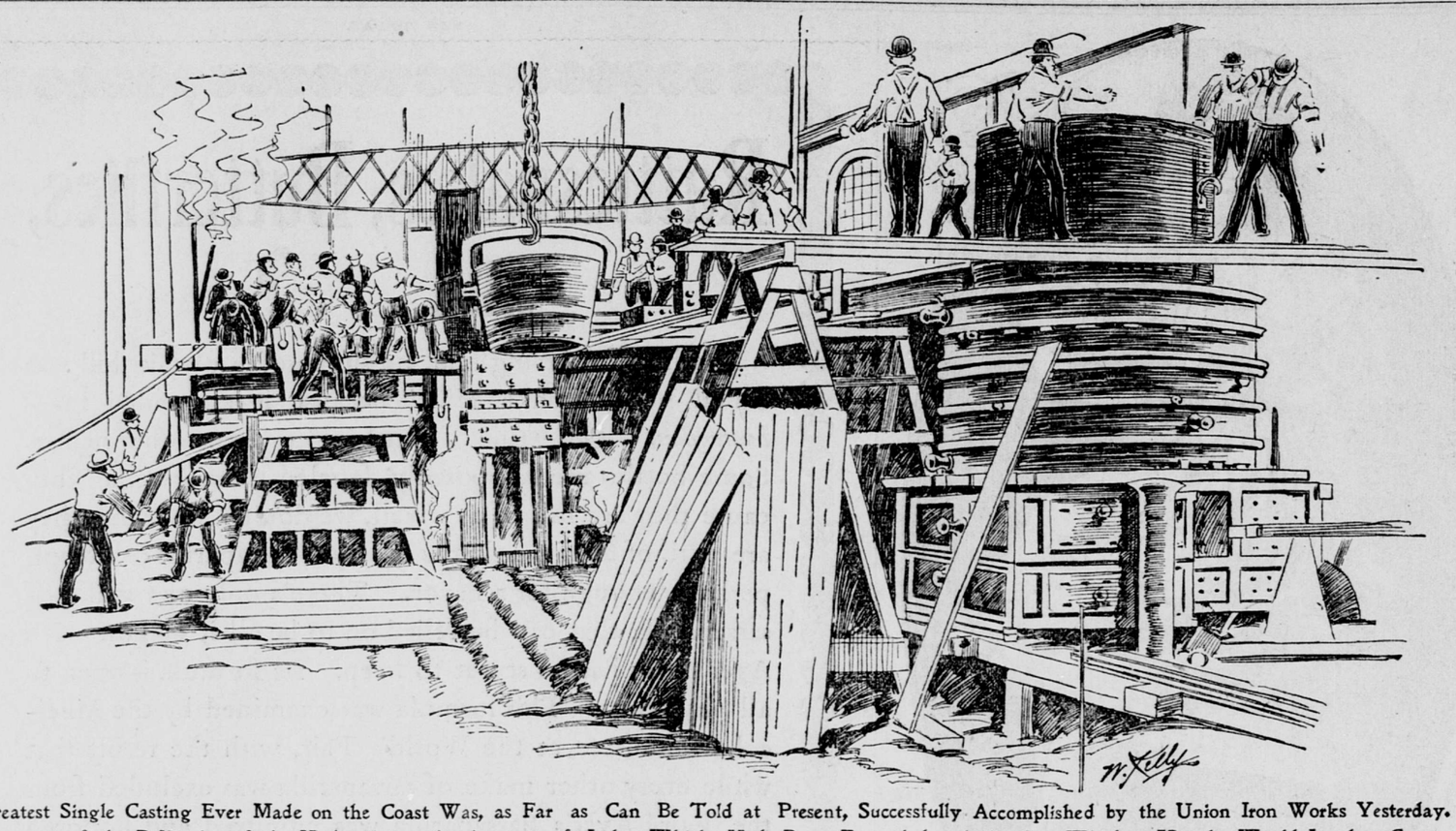


The Greatest Single Casting Ever Made on the Coast Was, as Far as Can Be Told at Present, Successfully Accomplished by the Union Iron Works Yesterday. On Account of the Difficulty of the Undertaking, the Amount of Labor Which Had Been Expended and the Cost Which a Mistake Would Involve, Great Interest Was Taken in the Work by the Managers and Workmen of the Establishment.

TONS OF MOLTEN METAL

Great Cast Made by the Union Iron Works.

THREE MONTHS OF PREPARATIONS.

Two Minutes Decide the Results of Many Men's Labor.

WILL BEND HEAVY IRON PLATES.

The Immense Piece of Metal to Be Used in a New Machine.

Daniel O'Neil, foreman molder of the Union Iron Works, cast his eye anxiously over his corps of thirty or thirty-five expert assistants. Every man was on the alert and at his post. From the huge caldrons rose tongues of weird, uncanny, hungry flames. From a score of vent pipes wavering columns of fire consumed the gas, which had generated in the bowels of the mold. The supreme moment to which this force of expert workmen had been laboring for months had arrived.

"Go on," shouted O'Neil, with a wave of his hand. Two begrimed molders threw their weights upon the levers that controlled the huge tank which contained the seething liquid metal. With a dull roar 150,000 pounds of iron went pouring into the great mold which had been prepared for it. Interested workmen timed the passing of the molten mass as they might the performance of a favored racehorse.

The last of the yellow stream had flowed into the great receptacle of iron and clay. The gas from the vent-pipes flickered feebly and the workmen relaxed their tension to heave a sigh of relief. "Two minutes exactly," announced one of the volunteer timers, "and so far it couldn't have been nicer."

This casting was one which will be historical in the annals of metal working. Seventy-five tons is a huge amount of metal for a single cast. Such a thing has never before been accomplished on this coast. In the whole United States there are but two or three establishments which would undertake such a problem, and there are ample reasons why any manufacturer might hesitate before attempting it.

The piece which was yesterday cast is for the Union Iron Works' own use. It is to be an important part of a machine for the purpose of bending plates to be used on men-of-war. This machine is calculated to exert 500 tons of pressure at one time.

The formidable agency in this pressure which was cast yesterday is 24 feet long, 6 feet wide and 7 feet deep. In its construction 150,000 pounds of the best and hardest iron was used. It is worth to the works over $10,000, and a single mistake in its casting might have cost thousands of dollars and months of delay. That is why the men in the rolling-mill awaited the flow of metal anxiously. That is why Foreman O'Neil smiled as he descended from his commanding position on top of the frame wherein was constructed the huge mold.

It is an interesting process, this molding of great masses of metal. It is an exciting procedure when, as in the present instance, a mistake of an instant may mean the loss of months of labor and thousands of dollars.

For over three months Daniel O'Neil and his thirty expert molders have been preparing the great frame for the casting. There were cores and crevices to be fashioned by deft hands, there were vent pipes to be arranged for, skilful appliances for preventing bubbles must be figured upon, and last, but by no means least important, forty tons of weight had to be placed upon the frame to prevent the tremendous heat from raising the entire structure from the ground.

Yesterday was the time appointed for the casting. There was no employe of the works who did not take a personal interest in the great event. At 10 o'clock in the morning William Hyland, foreman of the furnace room, commenced preparing the metal for the mold. Into the infernal heat of the great retorts four sturdy men piled incessantly great chunks of pig and scrap iron. There is something terrifying in the heat of these great furnaces. It is neither flame nor liquid, but a pale ghostly blue vapor which wavers and writhes in its glaring cell. Beneath from each furnace there trickles forth a limpid, innocent-looking stream of yellow.

As it strikes the bottoms of the huge ladles set to receive it there is a shower of sparks which resembles the pinwheels which delight the youthful heart on the Nation's birthday.

Just before the casting yesterday one of those pretty sparks lodged in the clothes of one of the men. There was a momentary excitement, a rush for a water-barrel, and then the man returned laughing to his work. Hot metal has little terror for these disciples of Vulcan.

It was just a quarter of 4 when the metal had all been reduced and everything was ready for the cast. Just before turning in the metal a half-dozen men rushed about the frame with lighted torches and ignited the gas which was escaping from the vent holes of the mold. These flaming jets gave a weird appearance to the scene, and the suppressed excitement of the spectators and the employes made the situation as the metal was unleashed dramatic in the extreme. It was only two minutes before the great tank of liquid iron had been emptied, but for two hours the workmen kept adding from a reserve ladle, all the time prodding and stirring the molten mass with great rods of iron.

It will be nearly two weeks before the cast has sufficiently cooled to be taken from its bed of clay. Then and not till then will Daniel O'Neil, his employers and his co-laborers feel justified in crowing. But as far as could be told yesterday everything had been satisfactory. There had been no hitch in the arrangements. The 150,000 pounds of metal had flowed into the frame as smoothly as so much water. If the cast proves a success it will be a matter of pride to every employe of the works. If it prove a failure—but every employe is satisfied it will not be a failure, and so far their confidence seems justified.

MISS MURPHY'S WILL.

Holographic Document Filed for Probate in This City by Victor H. Metcalf Yesterday Afternoon.

The will of the late Miss Isabella Mary Margaret Murphy was filed for probate in the Superior Court yesterday. The document was presented by Victor H. Metcalf of Oakland. The will is holographic in form and provides that the estate shall be divided between two sisters of the testator.

After Miss Murphy's death there was some telegraphic gossip to the effect that a later will than that of 1891 had been found, but that instrument appears to have been withdrawn, if, in fact, it existed.

Following is the full text of Miss Murphy's will:

In the name of God, amen. I, Isabella M. M. Murphy, being of sound mind and memory and in full possession of all my faculties, yet knowing the uncertainty of life, do hereby make, publish and declare this to be my last will and testament:

I. I direct that all my just debts be paid.

II. I give, devise and bequeath all the property of which I may die seized or possessed, and wherever situated, to my *two* sisters, Mary Helen Murphy and Frances J. Murphy (not Lady Wolseley,) share and share alike. Should either of my sisters die (Mary H. Murphy or Frances J. Murphy) before distribution of my estate, leaving her no issue surviving, then the portion of my estate to which the said sister deceased would be entitled to if living is to go to the survivor.

III. Should either of my said sisters (Mary H. Murphy or Frances J. Murphy) die before distribution of my estate, leaving her issue surviving, then the portion of my estate to which said deceased sister would be entitled, if living, to go to her issue.

IV. Should *both* of my said sisters die without issue before distribution of my estate then I wish all my estate to go to the children of my cousin, Edward Daly of Brooklyn, New York, share and share alike.

V. I hereby nominate my sister, Frances J. Murphy, and Victor H. Metcalf of Oakland, Cal., the executrix and executor of this, my last will and testament, and direct that no bonds be required of them or either of them.

If Frances J. Murphy or Victor H. Metcalf should die before distribution of my estate then I renominate Vincente Dominguez as executor with my sister, Mary H. Murphy.

I leave nothing to my brothers, Eugene Kelly Murphy, Daniel Murphy or Samuel Murphy, or to my eldest sister, Anna T. Wolseley.

Written entirely with my own hand this 23d day of May, 1891, at 12 Charles street, Berkeley square, London, England.

ISABELLA MARY MARGARET MURPHY.

I hereby revoke all former wills by me made.

ISABELLA MARY MARGARET MURPHY.

In his application for the admission of the will to probate Mr. Metcalf says that the value of the personal property is $98,000 and that the total value of the estate is $438,000. George D. Metcalf and Myrick & Deering are attorneys for the executor.

Listened to Inventors.

The fenders committee of the Board of Supervisors held a long session yesterday morning listening to the explanation of a score of inventors who wished to have their devices adopted for local streetcars. No conclusion was reached and another meeting will be held to listen further to mechanical experts who are anxious to have honors and pecuniary plums conferred on them.

ADVANCES made on furniture and pianos with or without removal. Noonan, 1017-1073 Mission.

The Soft Glow of the Tea Rose is acquired by ladies who use POZZONI'S COMPLEXION POWDER. Try it.

BERKELEY HIGH TOOK THE COOKIE

Successful Annual Field Day of the Academic League.

Oakland High School Came Next by a Score of 40 to 44.

A Large Number of Ladies and Their Escorts Enjoyed the Day's Varied Sport.

The sixth semi-annual field day of the Academic Athletic League was held yesterday at the Olympic grounds and proved to be a grand success in every particular.

The day was beautiful for athletic sports and when the hour came for the commencement of the exercises the grandstand was packed with handsome young ladies and their escorts. Divers colors decorated the hats of the spectators, representing the colors under which the athletes contested.

The day was remarkable for the lowering of college records, and particularly was this the case in the 12-pound hammer throwing event, which was won by Smith of Hoitt's School, who sent the hammer over 156 feet 5 inches of sward. The record previous to this performance was 133 feet 9 inches.

The other good performances were the lowering of the running high jump record, shot-putting record, 220-yard hurdle record, 440-yard record and relay record.

When the points scored by the competing colleges were figured up a great cheer greeted the success of the Berkeley High School boys, who defeated the Oakland High School representatives by four points.

Everything was carried out with dispatch, much to the credit of the gentlemen who officiated. The following is a result of the games:

Track events, 100-yard dash, trial heats. Entries first heat—Mau, P. H. S.; Hinz, L. H. S.; King, O. H. S.; Harney, Sacramento; Georges, C. S. M. A.

First, Mau; second, Harney. Time, 11 1-5 seconds.

Second heat—Foster, O. H. S.; Riccomi, P. H. S.; E. Scott, B. H. S.; Cutten, L. H. S.; Dean, C. S. M. A.

First, Scott; second, Foster. Time, 10 4-5 seconds.

In the final heat Mau ran and won a good race, with Scott a close second. Time, 10 4-5 seconds.

120-yard hurdle, trial heat. First heat entries—Foster, B. A.; Dorr, P. H. S.; Hussey, O. H. S.

First, Foster; second, Dorr. Time, 19 2-5 seconds.

Second heat: Starters—Hamlin, H. S.; Pope, P. H. S., and Nicholson, O. H. S. Won by Hamlin, with Pope second. Time, 18 2-5 sec.

In the final heat, Hamlin first, Foster second and Pope third. Time, 18 sec.

880-yard run: Starters—Russ, B. A.; M. Scott, B. H. S.; R. Morrill, C. H. S.; Beatty, B. H. S.; Stites, S. H. S.; Harris, O. H. S.; Weber, O. H. S.; Duncan, L. H. S.; Westover, P. H. S.; Hickman, L. H. S.; Chadbourne, H. S.; Sherburn, Sacramento; Hubbard, C. S. M. A. First, Russ; second, Weber; third, Harris. Time, 2 min. 12⅕ sec.

Mile walk, starters—Walsh, L. H. S.; Wills, O. H. S.; Bartlett, L. H. S.; Griffin, C. H. S.; Tully, S. H. S.; Wilson, B. H. S. The last two named athletes were disqualified for unfair walking. Walsh first, Griffin second. Time, 7 minutes 36 3-5 seconds.

220-yard dash in trial heats. First heat, starters—Woolsey, B. H. S.; Cutten, L. H. S.; Gay, P. H. S.; Dean, C. S. M. A. Woolsey first, Dean second, Gay third. Time 25 seconds.

Second heat starters—Cadogan, O. H. S.; Hinz, L. H. S.; Harney, Sacramento; Georges, C. S. M. A.; Carter, S. H. S. First, Cadogan; second, Hinz; third, Harney. Time, 24 sec.

Final heat—First, Woolsey; second, Cadogan; third, Hinz. Time, 23 4-5 sec.

220-yard hurdle race—Starters first heat—Warnick, B. H. S.; Foster, B. A.; Harris, O. H. S. First, Warnick; second, Foster. Time, 29 sec.

Second heat starters—E. Morrill, C. H. S.; Dorr, P. H. S., and Symmes, L. H. S. First, Morrill; second, Dorr. Time, 29 3-5.

Final heat—First, Warnick; second, Morrill; third, Foster. Time, 28 2-5 sec.

Mile run, starters—F. Russ, B. A.; Duncan, L. H.; Hickman, L. H. S.; Beatty, B. H. S.; Townsend, P. H. S.; Westdahl, O. H. S.; Dandero, B. H. S.; Blaine, S. M. S.; Stites, S. H. S.; Harley, B. H. S.; Hubbard, C. S. M. A.; Fack, C. S. M. A.; E. Morrill, C. H. S.

First, Fack; second, Dandero; no third, as Westdahl, who came in first, was disqualified by the judges for interfering with a contestant when rounding the last turn. Time, 5 min. 31 sec.

The final of the two-mile bicycle race in heats was won by Brereton, with Agnew second and Blanchard third. Time, 6 min. 12 sec.

440 yard dash, entries—Cadogan, O. H. S.; Woolsey, B. H. S.; Spilvalo, S. M. S.; Carter, S. H. S.; Sherburn, Sac. First, Woolsey; second, Cadogan. Time, 52 3-5 sec. The record was 54 3-5 sec.

The relay race was the most interesting feature of the day's sports and was won after a hard struggle by the Oakland High School team, with the Berkeley High School a close second.

Field events—Putting the 16-pound shot; entries: Woolsey, B. H. S.; Plaw, O. H. S.; Barnes, A. C. C.; Bard, M. T. M. A.; Bockenoogen, A. C. C.; Nathan, P. H. S.; Pope, P. H. S. First, Woolsey; Nathan second; distance, 38 feet 3 inches.

Running high jump (starters)—Brock, B. H. S.; Curtis, M. T. M. A.; E. Scott, B. H. S.; Montgomery, L. H. S.; Symmes, L. H. S.; Cooley, O. H. S. Cooley first, height 5 feet 8 inches; Brock second, 5 feet 5¾ inches. The record was 5 feet 6⅝ inches, held by Hoffman, O. H. S.

Throwing the twelve-pound hammer (starters)—Smith, H. S.; Plaw, O. H. S.; Barnes, A. C. C.; Bockenoogen, A. C. C.; Montgomery, L. H. S.; Beatty, B. H. S.; Hubbard, C. S. M. A. Smith first, distance of throw 156 feet 5 inches; Plaw second, with 148 feet 10 inches; Montgomery third, with 119 feet. The record, held by the record-breaker, Smith, was 133 feet 9 inches.

Running broad jump was won by Hussey, O. H. S., who cleared 21 feet 2¾ inches, Mau second and Brock third.

The pole vault was won by Nicholson, O. H. S., who cleared 9 feet 3 inches, Hamlin second and Keane third.

The following are the points scored by the respective college athletes who took part in the games:

Oakland High School 40, Berkeley High School 44, Polytechnic High School 10, Lowell High School 6, Sacramento High School 6, Stockton High School 1, Central High School (Oakland) 10, Alameda University Academy 0, St. Matthew's School 0, Hoitt's School (Burlingame) 5, California School of Mechanical Arts 10, Mt. Tamalpais Military Academy 0, Academy of California College 0, Boone's Academy 0, Belmont School 0, Selbourne Academy 0.

The officers of the day were:

Committee in charge—Herbert Hauser, Sacramento H. S., chairman; Ernest C. Foster, O. H. S.; Brendan Townsend, P. H. S. Referee—Colonel George C. Edwards. Starter—Phil Wand, O. A. C. Judges of finish—President Humphrey, P. A. A.; W. Dunn, U. C.; S. Waller. Timers—D. E. Brown, L. S. J. U.; E. C. Brown, U. C.; T. E. Barnes, U. C. Field judges—C. H. Woolsey, H. S.; R. Lloyd, U. C.; A. Cheek, U. C. Measurers—F. McCormack, O. A. C.; J. Hoffman, U. C.; R. Simmons, U. C. Judge of walking—Griffin, U. C. Inspectors—J. Pitchford, C. S. M. A.; W. C. Dawson, U. C. Clerks of course—Rev. W. A. Brewer, S. M. S.; S. Pope, U. C. Field marshals—H. Spencer, B. H. S.; E. H. Moulton, O. H. S.; L. Scharetz, P. H. S. Scorer—W. B. Jackson, U. C. Announcer—L. White, P. H. S.

A NORTHERN OUTING.

The California Press Association Decides to Start in June on Its Summer Excursion.

There was a meeting of the following gentlemen, comprising the executive committee of the California Press Association, at 16 Post street, last night: C. F. Montgomery, Ledger, Antioch; G. M. Francis, Register, Napa; A. B. Lemmon, Republican, Santa Rosa; A. J. Pillsbury, Register, Tulare; Raleigh Barcar, Reporter, Vacaville; H. Z. Osborne, Express, Los Angeles; J. A. Filcher, Herald, Auburn.

The following were the officers: E. B. Willis, president, Record-Union, Sacramento; S. M. Haskell, vice-president, Progress, Pomona; W. D. Pennycook, secretary, Chronicle, Vallejo; T. G. Daniels, treasurer, Argus, Alameda.

The purpose of the meeting was to perfect the programme for the summer outing.

The report of the sub-committee was submitted and approved. It outlines an extensive itinerary north, taking in the Puget Sound territory and a hasty journey to Victoria.

The start will be made from this City on June 5, and the party will keep moving about for the next thirty days.

VAN MAY NEVER FIGHT AGAIN

The Big Olympian Suffering From a Bad Case of Hernia.

Now Only Twenty Years Old He Deplores the Unfortunate Accident.

Van Doesn't Blame Jeffries, but Thinks He Has a Bad Habit of Stooping in a Clinch.

"You may never be able to enter the ring again." These were the words of a physician of standing to Van Buskirk, the stalwart Olympian, who was bested by Jeffries, the Los Angeles giant, at the People's Palace Friday evening.

Van Buskirk is seriously injured. He lies in bed at the Yosemite House, but if complications do not set in he expects to be on his feet again in a few days.

Dr. Lustig, the National Club physician, examined him at the ringside immediately after the contest, and stated that he was unable to determine whether the man was seriously injured, but when the athlete was taken to his room it was discovered that hernia had set in in an aggravated form, and Dr. Somers was hastily summoned.

Last night the invalid was surrounded by a crowd of friends. He lay at ease last night.

"Yes, I am much better now," he said, "and in a few days I expect to be about the streets again. For two months, however, I shall be obliged to be very careful. Then, with good care, I shall, my physician thinks, be all right again.

"But he has cautioned me against taking any hard exercise at all for some time to come. In fact, I do not improve as I expect; it may mean the end of my ring career.

"I do not believe that Jeffries struck me where he did intentionally"—Van claims that he received the blow several inches lower than the spectators believe he did—"but he has a bad habit of stooping very low in a clinch and doesn't seem to know just where he is striking."

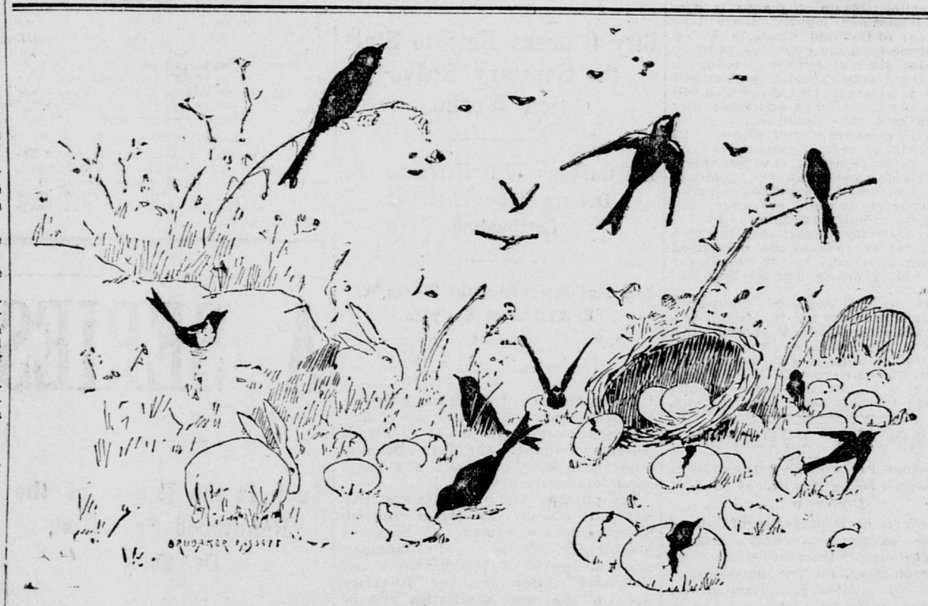
VEREIN EINTRACHT.

The Sections Banqueted by the New President.

A. Becker, the newly elected president of the Verein Eintracht, entertained the singing section, the turner section and the shooting section to a banquet, Friday night.

The other officers elected were: Vice-president, Frank Huber; recording secretary, F. Hoefinghoff; financial secretary, Otto Thiel; treasurer, John Harman; sergeant-at-arms, Gustave Audibert; trustee, Louis Sass; librarian, J. Hartmannshen.

The following were elected delegates to the next annual convention of the Eintracht Union: A. Becker, John Derpaum, A. Entzmann, F. M. Freund, Henry Guembel, J. Hartmannshen, Frank Huber, R. Jentzsch, F. A. Kuhls, John Loeffler, F. W. Menzer, C. Mueller, J. N. Mertens, John Rhein and Charles Winters.



JOY AND SPRING ARE INSEPARABLE. WHEN the blood is filled with the bile of winter, some remedy is needed to clean the blood, to separate the bile from the blood, to throw off the bile and leave the blood rich and strong, strong and rich. The old way of blood-cleaning was to drive the impurities of the blood through the skin. This old way caused pimples, facial sores, skin sores, large red blood blotches, itching skin, sleepless nights and a "give-away face." Your neighbors know you are clearing your blood, and they tell you of it. The new way is the way Joy's Vegetable Sarsaparilla does its work. No pimples, no sores, no blotches, no itching skin, no fire skin. The blood is purified and the bile driven through natural channels. Your bowels are gradually loosened, so gradually as to cause no uneasiness, and yet loosened surely. You can't be constipated when you use Joy's Vegetable Sarsaparilla. Joy's Vegetable Sarsaparilla brings the roses to your cheeks. Try it to-day.

NOTE—No druggist can truthfully say he owns stock in Joy's Vegetable Sarsaparilla. No druggist is connected with the Sarsaparilla Company, look out for the corner druggist who substitutes, he does it in spite and for profit. He does the same with your prescription. When you ask for Joy's get Joy's and get no other.

NEW TO-DAY.

.....The GREATEST Sale... of the Century

ANOTHER WEEK OF THE MOST MARVELOUS Bargains

EVER OFFERED IN THE HISTORY OF THIS COUNTRY.

COOK & CO., 123 KEARNY ST.

65 cts. The greatest offer of the century. 400 beautiful Lamp Globes, rich, new and a variety of beautiful colors and designs; such as solid colors in blue, yellow and pink; flower decorations in violets, roses, forget-me-nots, Delft, Fleur de Lis, Dresden flowers, etc. This offer is as opportune as it is wonderful as everybody is looking for pretty Globes to replace their silk or paper shades.

75 cts. 100 Tiney Rochester Lamps. Here is another one of those wonderful bargains that will be sold out very quickly. This Lamp is of solid metal, finely nickel plated, center draught, small Rochester burner. Gives a strong light, is a small table lamp and the price includes chimney and shade. (Its all complete.) Only one sold to each customer.

55 cts. A tremendous bargain—a nest of FOUR Vegetable Dishes, beautifully decorated on finest "Meakins" Porcelain; one of the pieces alone is worth what we ask for the whole nest.

20 cts. A pair for Salt and Pepper Shakers. This would be a low price for cheap, ordinary quality, but what makes this a remarkable bargain is the beautiful shape and quality, just like the real cut glass (you can hardly see the difference). The tops are heavy white metal and fine silver plate. Only one pair to each customer.

25 cts. A great Cup and Saucer offer. Finest quality of white porcelain in various shapes, (pick out any shape you like). Tea size, 3 pairs for 25 cents. That's a remarkable price. No more of these after Wednesday.

35 cts. Quadruple Silver Plated Butter Knives in a variety of beautiful patterns. "We warrant them" that means they are the best goods and will wear for many years. This sale price is just one-half regular price. One to each customer.

15 cts. Bohemian Colored Glass Oil and Vinegar Decanters, worth just triple the price; a pair to each customer is all we can sell, the lot not being very large.

25 cts. Sugar Shells or Sugar Spoons. A remarkable price for the best guaranteed quadruple plate. A variety of pretty shapes and designs. The bowls of these spoons are all gilt.

DINNER SETS

Have you seen our Grand Dinner Set Display?

COOK & CO. 123 KEARNY ST.

THE WEEKLY CALL

It Publishes the Cream of the News of the Week and

MANY ATTRACTIVE AND ORIGINAL FEATURES.

IT IS THE BEST WEEKLY PAPER ON THE PACIFIC COAST

The Best Telegraphic Service on The Coast

Mining News That Is Accurate & up to date

Not a Line of it Sensational or Faky, and Not a Line of it Dry or Uninteresting.

Bright, Clean, Thoughtful. | A Champion of Truth.

A CALIFORNIA NEWSPAPER ALL THE TIME.

IT ADVOCATES HOME INDUSTRIES

SENT BY MAIL, $1.50 A YEAR.

THE CALL SPEAKS FOR ALL

BIG G. CURES in 1 to 5 days. Guaranteed not to stricture. Prevents contagion. THE EVANS CHEMICAL CO. CINCINNATI, O. U. S. A. $1.00

Big G is a non-poisonous remedy for Gonorrhœa, Gleet, Spermatorrhœa, Whites, unnatural discharges, or any inflammation, irritation or ulceration of mucous membranes. Non-astringent. Sold by Druggists, or sent in plain wrapper, by express, prepaid, for $1.00, or 3 bottles, $2.75. Circular sent on request.